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ABSTRACT

As part of their ongoing accountability and program improvement initiatives, Illinois colleges annually conduct a survey of occupational program graduates. This report provides statewide information from graduates of selected occupational programs regarding the effectiveness of their community college experiences. Data for the report were obtained from responses to a standardized survey. The survey instrument addresses attendance objectives, education status, employment status, salary, employment start-up, geographic location of employment, and satisfaction with employment and components of the educational program completed. Such information has implications for colleges as they develop new program proposals and perform program review in order to ensure that they stay in step with the changing job market, thus providing for satisfactory employment and compensation for their graduates. Part I of this report summarizes survey outcomes, which include: (1) 98% of the respondents were employed, pursuing additional education, or both; (2) average salary was \$12.62 per hour; and (3) overall, graduates expressed satisfaction with their programs and college services. Part II includes an in-depth analysis of survey results for specific program areas. The Appendices provide detailed data tables derived from the results of the survey. Appendix A presents a summary of responses by college and response rates by program area. Appendix B provides information by survey item, and Appendix C presents data by both college and program. Contains 23 references. (VWC)





1999 FOLLOW-UP STUDY

of Fiscal Year 1998 Occupational Program Graduates

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October 1999



Illinois Community College Board

1999 FOLLOW-UP STUDY OF FISCAL YEAR 1998 OCCUPATIONAL PROGRAM GRADUATES

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1999 FOLLOW-UP STUDY OF FISCAL YEAR 1998 OCCUPATIONAL PROGRAM GRADUATES

Introduction

As the year 2000 approaches, extensive media coverage is expected about substantial changes that have occurred in the last decade and over the later part of the century. A couple of quotes about the impact of technology and the growing importance of people at the dawn of the new millennium reiterate the significance of education and training to organizations striving to acquire or sustain a competitive advantage.

The rapid expansion of technological advances has had one of the most profound affects on the workplace in the 1990s. . . Perhaps the greatest impact of the decade's technological revolution is that it has leveled the playing field. With all organizations having access to technology, it's a firm's people that make the difference. Dawn Anfuso, "1990s in Review" *Workforce*, January 1999 p.53.

Human capital is, and should be, the center of any business. It's the only sustainable advantage. Everything else can be replicated easily by competitors.

Robert Reich, "Human Capital Is the Center of All Business," Workforce, April 1999 p.41.

A major reason that community colleges exist is to help individuals acquire the necessary skills to successfully enter, re-enter, and advance in the workforce. Community colleges cost effectively provide quality programs and services to provide Illinois business, industry, and government with a qualified workforce through occupational and vocational education programming, customized training, and business and industry services. Knowledgeable, highly skilled, creative employees are a key component for success in an increasingly competitive and global marketplace.

As a part of their ongoing accountability and program improvement initiatives, the colleges annually conduct a survey of occupational program graduates. This report provides statewide information from graduates of selected occupational programs regarding the effectiveness of their community college experiences. Data for the report were obtained from responses to a standardized survey. The survey instrument addresses attendance objective, education status, employment status, salary, employment start-up, geographic location of employment, and satisfaction with employment and components of the educational program completed. Such information has implications for colleges as they develop new program proposals and perform program review in order to ensure that they stay in step with the changing job market, thus providing for satisfactory employment and compensation for their graduates. Part I of this report provides an overall summary of survey outcomes. Part II includes an in-depth analysis of survey results for specific program areas. The Appendices provide detailed data tables derived from the results of the survey. Appendix A presents a summary of responses by college and response rates by program area. Appendix B provides information by survey item, and Appendix C presents data by both college and program.

A total of 2,918 (Table A-2) former students who graduated from 39 selected Illinois community college programs in fiscal year 1998 were surveyed in March 1999. For most graduates, this was approximately six to nine months after program completion. Graduates of the following programs



were excluded from the statewide study due to small numbers of completers or few respondents: Crop Production Operations and Management; Nursery Operations and Management; Parks and Grounds Management; Forestry Production/Processing; Fashion Merchandising; Entrepreneurship; Financial Services Marketing Operations; Industrial Marketing; General Marketing Operations; Recreation Products/Services Marketing Operations; Insurance Marketing Operations; Home Health Aide; Elder Care Provider/Companion; Custodial Services; and Parks, Recreation and Leisure Facilities Management. Removing the 29 selected graduates and their responses resulted in the utilization of 2,889 responses from a pool of 5,054 graduates. Therefore, the survey yielded a usable response rate of 57.2 percent (Table A-1). Table A-2 shows response rates by program.

The broad field of Nursing accounted for four out of five graduate respondents (80.3 percent). Hence, graduates from the remaining program areas combined accounted for the remaining 19.7 percent of the respondents. Overall results are influenced by differences in program size and in the number of graduates responding to particular questions. Percentages cited throughout the report reflect the number of responses to each question.

Table 1

OCCUPATIONAL PROGRAM AREAS SURVEYED IN FY 1999
BY CIP CATEGORY

CIP	Title
010101	AGRICULTURAL BUSINESS AND MANAGEMENT
0103	AGRICULTURAL PRODUCTION WORKERS & MANAGERS
010301	Agricultural Production Workers & Managers, General
010302	Agricultural Animal Husbandry & Production Management
010304	Crop Production Operations & Management*
010507	EQUESTRIAN/EQUINE STUDIES, HORSE MANAGEMENT
0106	HORTICULTURE SERVICES OPERATIONS & MANAGEMENT
010601	Horticulture Services Operations & Management, General
010602	Arboriculture
010603	Ornamental Horticulture Operations & Management
010604	Greenhouse Operations & Management
010605	Landscaping Operations & Management
010606	Nursery Operations & Management*
010607	Turf Management
010610	Parks & Grounds Management*
030401	FORESTRY PRODUCTION/PROCESSING*
030601	WILDLIFE AND WILDLANDS MANAGEMENT
080102	FASHION MERCHANDISING*
080301	ENTREPRENEURSHIP*



Table 1 (Continued)

OCCUPATIONAL PROGRAM AREAS SURVEYED IN FY 1999 BY CIP CATEGORY

CIP	Title
080401	FINANCIAL SERVICES MARKETING OPERATIONS*
0807	GENERAL RETAILING & WHOLESALING OPERATIONS
080702	Industrial Marketing*
080705	3 F
080706	G
080708	B - F
080709	General Distribution Operations
080903	RECREATION PRODUCTS/SERVICES MARKETING OPERATIONS*
081001	INSURANCE MARKETING OPERATIONS*
081105	TRAVEL SERVICES MARKETING OPERATIONS
150507	ENVIRONMENTAL & POLLUTION TECHNOLOGY
2006	CUSTODIAL*
200602	Elder Care Provider/Companion*
200604	Custodial Services*
310301	PARKS, RECREATION & LEISURE FACILITIES MANAGEMENT*
310505	EXERCISE SCIENCES/PHYSIOLOGY & MOVEMENT STUDIES
461000	CONSTRUCTION TRADES (INTEGRATED)
470501	STATIONARY ENERGY SOURCES INSTALLER & OPERATOR
5116	NURSING
511601	Nursing (R.N. Training)
511613	Practical Nurse (L.P.N. Training)
511614	Nurse Assistant/Aide
511615	Home Health Aide*
5126	MISCELLANEOUS HEALTH AIDES
512602	Medical Laboratory Aide/Phlebotomy
512604	Therapeutic Recreational Assisting

^{*} Excluded from state report due to low number of graduates or low response rates.



Part I: STATEWIDE OVERVIEW

Follow-up surveys were mailed to graduates of the selected occupational programs listed on the previous page in spring 1999, approximately six to nine months after graduation. Graduates reported the following:

- ▶ 93.8 percent were employed or pursuing additional education or both. (Table B-1.)
- ▶ 90.0 percent of the occupational completers were employed. (Table B-2.)

Among working graduates,

- ▶ 82.0 percent held full-time status in their current jobs. (Table B-2.)
- ▶ 87.2 percent were employed in positions related to the field in which they studied at the community college. (Table B-5).
- ▶ 82.7 percent obtained their current positions while enrolled or after graduating. (Table B-7.)
- 92.3 percent were employed in Illinois. Of those, seven out of ten remained in the district where they received their training. (Table B-8.)
- The average salary was \$12.62 per hour, nearly two-and-a-half times the minimum wage (\$5.15 per hour). (Table B-9.)
- Graduates employed in full-time positions earned the equivalent of about \$26,800 annually.
- The average rate of unemployment (the percent of graduates who were unemployed and seeking work) was 3.3 percent. (Table B-2). The statewide unemployment rate was 4.0 percent in March 1999 (http://lmi.ides.state.il.us/laus99.htm 9/29/99).
- Nearly one-quarter of the respondents were pursuing additional education. Four out of five of those enrolled in further study were taking course work in a related field (Table B-4).
- Graduates employed in positions related to their community college program were satisfied with their current positions (4.23 on a five-point scale, with 5 being very satisfied and 0 being very dissatisfied). Including unrelated positions, job satisfaction averaged 4.19/5.00. (Table B-10.)
- Overall, graduates expressed satisfaction (M=4.26/5.00) with components of their program (course content, lecture/lab experiences, equipment, facilities and materials, job preparation, preparation for further education, and labor market employment information). (Table B-11.)
- Graduates were also satisfied with college services, such as financial aid, academic advising, career planning, transfer planning, counseling, tutoring, library/audio visual, student activities) awarding an average rating of 4.20/5.00. (Table B-12.)

Graduates from similar program areas were surveyed five years ago. Due in large part to the predominance of the nursing fields in the programs under study, an overall comparison of follow-up survey outcomes for 1998 and 1993 graduates indicates relative stability. Graduates from nursing programs are typically in high demand. Across all programs surveyed, the percentage of employed graduates was consistently high at 90 percent among both 1998 and 1993 graduates. Likewise, the percentage of employed graduates in full-time positions related to their programs of study was about the same (87.2 percent for 1998 and 88.5 percent for 1993 completers). Similarly, graduates



exhibited consistently high combined levels of employment, enrolling in additional courses, or both (93.8 percent among 1998 versus 93.5 percent for 1993 graduates).

Generally more recent graduates exhibited slightly higher satisfaction ratings. Workers in both studies reported high levels of satisfaction with their jobs ($\underline{M} = 4.19$ for 1998 and $\underline{M} = 4.08$ for 1993). Likewise, graduates reported high levels of satisfaction with major program components ($\underline{M} = 4.26$ for 1998 completers and $\underline{M} = 4.10$ for 1993 graduates) and college services ($\underline{M} = 4.20$ for 1998 and $\underline{M} = 4.00$ for 1993 completers).

A slightly larger proportion of recent graduates were both employed and pursuing additional education (19.5 percent for 1998 versus 18.1 percent for 1993). A slight increase was noted in the percentage of survey respondents pursuing additional education among more recent graduates (23.6 percent among 1998 graduates versus 21.7 percent for 1993 completers). The percentage of recent graduates who were unemployed and seeking work is lower currently at 3.3 percent versus a 4.1 percent unemployment rate reported five years earlier. While economic conditions in 1994 were relatively good, unemployment levels in Illinois during spring 1999 were at or near their lowest levels in 24 years at the time of the latest survey (http://lmi.ides.state.il.us/summjobs.htm 5/20/99 IDES press release). A slightly higher percentage of current graduates were working in the community college district in which they received their training (66.0 for 1998 versus 62.1 for 1993). The average hourly wage of \$12.62 increased \$1.14 from five years ago for all workers. (The minimum wage increased \$0.90 per hour over the same period of time.) A larger percentage of the 1998 graduates were employed in their current position prior to entering their training (17.3 percent among 1998 completers and 15.9 percent for 1993 graduates) and during program enrollment (19.1 percent for 1998 completers and 15.8 percent for 1993 graduates). Selected comparisons are illustrated below.

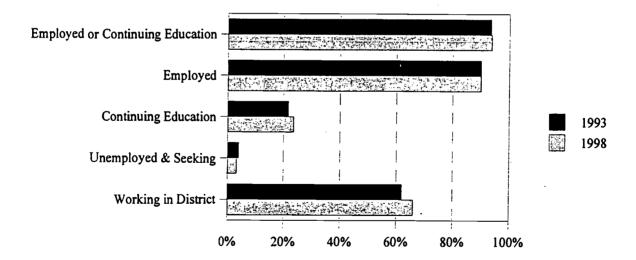


Figure 1. Comparison of Selected Occupational Follow-Up Study Results for Graduates in FY 1993 & 1998



Part II: PROGRAM-SPECIFIC ANALYSIS

One of the ways in which the Illinois Occupational Information Coordinating Committee (IOICC) provides career information is through a product known as *Horizons*. This information is currently available through compact disk and via the internet. The internet version of *Horizons* (2000) is referenced frequently throughout this section of the report. The Bureau of Labor Statistics' *Occupational Outlook Handbook* is also available on-line through the internet and frequently cited in the following pages.

<u>NURSING</u>. The broad field of nursing accounted for four out of five graduates in the current study and will be examined first in the program specific analysis. Each of the three sub-categories within the field of nursing will be addressed separately because each nursing specialty reflects a distinct level of training. Additionally, each nursing specialty (RN, LPN, CNA) is larger than any other broad program area being examined in the current study.

Background information on changes in the healthcare system which are impacting the nursing profession are included to provide context for the analysis. Demographic changes and increased longevity will contribute to rising healthcare costs which are expected to outpace the expansion of the American economy as a whole. It is anticipated that payments to hospitals will decrease as managed care organizations seek ways to expand client wellness education, augment preventative care, and provide service more cost effectively. According to an article entitled, "News and Trends in Nursing":

When large numbers of baby boomers begin to retire and become Medicare beneficiaries around the year 2010, the program will be severely stressed financially and will have difficulty providing healthcare to many people who, compared to previous generations, will be living well into their 90s and 100s... Within the next decade, the total amount Americans spend on healthcare will probably double to \$2.1 trillion, says a recent report by the Health Care Financing Administration... Currently healthcare expenses account for 13.6% of the total national economy; but by 2007, the amount will grow to 16.6% of an economy that is itself expanding every year... Hospitals, the largest employers of nurses, are expected to grow more slowly than will other service providers. In fact, the portion of the healthcare dollar that goes to hospitals will probably drop from 35% currently to 32% by 2001. These data indicate that more future opportunities for nurses may come from areas <u>outside</u> the usual institutional employers: hospitals, nursing homes, and home health agencies. Http://www.nursingspectrum.com/ConsiderNursing/Future/trends.htm

With increases in managed care, out-patient surgery, and shortened hospital stays, the healthcare industry continues to experience substantial change with repercussions for the nursing profession. The nursing shortages experienced by hospitals in the 1980s have changed to hospital staffing cutbacks during the mid to late 1990s. According to an article entitled, "The Changing Healthcare Market: Where Are the New Jobs":

Hospital beds are being eliminated, patients are spending less time in acute care settings, professional staffing is being reduced, unlicenced assistive personnel are



being hired in record numbers . . . Nursing, swept along in the tidal wave of healthcare reform, is having to redefine itself to remain an integral part of the new healthcare delivery system. Once the hub of healthcare, inpatient (hospital) care is becoming far more specialized; and more treatment is delivered at home, in ambulatory care clinics, in hospices, and in the newly emerging hybrids called subacute care units. . . What does this mean for nurses? It means that there will be fewer jobs in acute care hospitals, and that those who remain in those positions will require specialized skills and perhaps advanced training and education. But it also means there will be more opportunities for nurses opening up in other settings, such as outpatient centers, home health care, and ambulatory clinics. (http://www.nursingspectrum.com/ConsiderNursing/Future/changing.htm)

Likewise, the changing healthcare delivery scene also has implications for nursing preparation programs in areas such as technical and non-technical training provided, diversifying clinical site selection, and strengthening career counseling. The three community college system nursing programs included in this analysis arranged in order from most to least intensive training are:

Program Area	CIP Code
Nursing (R.N. Training)	511601
Practical Nurse (L.P.N. Training)	511613
Nurse Assistant/Aide (C.N.A. Training)	511614

Registered Nursing. Associate Degree Registered Nursing (RN) is the highest level of training in the profession offered by community colleges. It is also the largest occupational program offered in the Illinois community college system. Registered Nurses provide direct patient care to individuals with illnesses or injury and also

In Illinois, "Registered Nurses" is one of 50 occupations expected to provide the most job openings each year. Prospects for entry-level positions should be good, especially for those willing to work evening and night shifts. (Horizons, 2000)

educate through wellness programs. RNs may also direct or supervise the activities of other nursing staff or healthcare workers. Duties vary depending on the work setting: hospitals, ambulatory surgicenters, emergency medical centers, doctors' offices and clinics, nursing homes, home health care, schools, industry, etc. Generally, responsibilities include patient care, health care instruction, patient counseling, initial assessment, providing treatment planning assistance, implementing treatment, outcomes assessment, adjusting treatment plans, analyzing lab reports, and operating various types of specialized equipment such as respirators and EKG machines. (*Horizons*, 2000)

Faster than average employment growth for registered nurses is expected both in Illinois and across the country. The Substate Employment Projections System (1999) generates a list of job openings in Illinois requiring an associate degree. Registered Nursing was at the top of that list as having the most annual openings through 2006 (3,679/year). Likewise, national data show Registered Nursing as one of the five occupations projected to have the largest number of new jobs through the year 2006 according to the *Occupational Outlook Handbook* (1998-99) (http://stats.bls.gov/oco/ocos083.htm). Nationally, Registered Nursing is the largest healthcare occupation with over



1.9 million jobs (1996). Approximately 107,915 Registered Nurses were employed in Illinois. (Horizons, 1999) Outlook depends on rapid expansion of the health services industry due to the growing and aging population, increased spending on health care, and advances in medical technology. Employment in areas other than hospitals, such as long-term care facilities, home care settings and ambulatory care, is expected to increase. The most rapid employment growth is expected in home health care. Because this occupation is very large, many new job openings will result. Additional openings will occur as experienced nurses leave the work force. Nationwide, about two out of three jobs remained in hospitals in both inpatient and outpatient departments. (Occupational Outlook Handbook, 1998-99)

Nearly two-thirds of the 1998 Registered Nursing graduates responded to the survey (N=1,293). RN results were provided by 41 colleges. While results for 1998 Registered Nursing graduates were strongly positive, outcomes for graduates from five years ago tended to be slightly higher. For 1998 graduates, 95.6 percent were either employed, continuing their education, or both. Results are comparable to those noted for 1993 completers (97.2 percent). Overall employment levels were consistently high with 94.1 percent employment for 1998 graduates and 96.7 percent employment among 1993 graduates. Fewer than two out of ten held part-time positions for current and 1993 RN graduates. Nationally, about three out of ten RNs worked part time. (*Occupational Outlook Handbook*, 1998-99) Among working graduates, 95.7 percent of 1998 completers and 98.2 percent of 1993 graduates were employed in the field. Among the 52 graduates from 1998 who were working outside the field, frequently cited reasons included: "other" (N=12), didn't pass licensure test (N=9), preferred to work in another field (N=7), employed in a temporary position (N=7), found better pay in another field (N=5), and five who did not specify a reason. The unemployment rate was 2.7 percent for 1998 graduates and 1.8 percent for 1993 graduates just after they finished their training.

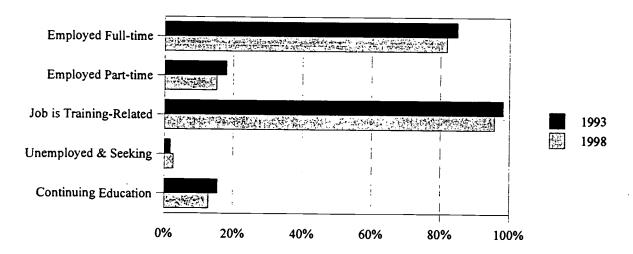


Figure 2. Registered Nursing Graduates: FY 1993 & FY 1998

Approximately three out of four RN graduates in both groups began their current positions after degree completion. The rate of obtaining current employment after degree completion was 70.3 percent for 1998 graduates and 77.4 percent for 1993 graduates. Nursing is a licensed/regulated profession. Results suggest that registered nursing program graduates seem to be following career



ladders where individuals begin working in the field with lower levels of certification and obtain additional training to position themselves for career advancement opportunities.

A slightly larger group of 1998 RN graduates were pursuing additional education (15.6 percent versus 13.0 percent for 1993 graduates). For both groups of graduates, nine out of ten engaged in continuing education were acquiring additional skills in the field of nursing.

Average salaries have risen modestly for community college registered nursing program graduates. Current graduates employed full-time earned \$15.09/hour or the equivalent of \$31,390 annually versus \$14.00/hour or \$29,120 annually for 1993 completers just after graduating. Earnings for community college program graduates compare favorably with all entry-level RNs in the state. According to the 1996 Occupational Wage Survey for Illinois, entry-level salaries for nurses range from \$11.60-\$15.00/hour, depending on the work setting. Additional wage data for experienced registered nurses in Illinois from the Biennial Survey of Illinois Registered Nurses (1996) indicate that staff nurses earned an average salary of \$18.30/hour. The Biennial Survey reports the lowest paying nursing position was an office nurse at \$15.00/hour and the highest pay went to nurse anesthetists at \$35.69/hour — a specialty which requires advanced training. (Horizons, 2000)

Community college RN graduates employed in nursing positions were satisfied with their jobs. ($\underline{M} = 4.25$ in 1998 and $\underline{M} = 4.16$ in 1993). Overall, RN graduates were also satisfied with the major program components ($\underline{M} = 4.16$ in 1998 and $\underline{M} = 4.04$ in 1993). Among program components, labor market information was rated lowest among both groups of RN graduates, but was still in the satisfied range ($\underline{M} = 3.87$ in 1998 and $\underline{M} = 3.66$ in 1993). Similarly, graduates were satisfied with services provided by the colleges ($\underline{M} = 4.09$ in 1998 and $\underline{M} = 3.97$ in 1993).

License Practical Nursing. Licensed Practical Nurses (LPNs) under supervision assist in providing patient care to individuals with illnesses, injury, or disability. Registered nurses or physicians oversee the work of LPNs who administer designated medications, monitor equipment, change dressings, take temperatures and blood pressures, and assist patients with personal hygiene. Private duty LPNs care for a single

In Illinois, Licensed Practical Nurses is one of 50 occupations expected to provide the most job openings each year. . . Due to the continued rapid expansion of the entire health care industry, opportunities for licensed practical nurses are expected to remain good. (Horizons, 2000)

patient in the home or hospital. They may do general housekeeping as well. LPNs are one-year certificate programs. (*Horizons*, 2000)

According to the Occupational Outlook Handbook (1998-99) and Horizons (2000), the employment outlook for LPNs is good with faster than average growth through 2006, both nationally and in Illinois. LPN job opportunities in hospitals are expected to decrease as further inpatient care reductions occur. Employment in nursing homes is expected to grow much faster than the average. Likewise, much faster than average growth is also expected in home healthcare services. This is in response to a growing number of older persons with functional disabilities, consumer preference for care in the home, and technological advances which make it possible to bring increasingly complex treatments into the home. As in most other occupations, replacement needs will be the main source



of job openings. In Illinois there are over 29,735 practicing LPNs with over 71 percent of them currently employed by either hospitals or nursing homes. (*Horizons*, 2000)

LPN graduates had a response rate of 52.6 percent. Twenty-six colleges provided information on their LPN graduates. Ninety-four percent of the LPN graduates were either employed, enrolled in additional education, or both. Nine out of ten LPN graduates were working. Nearly one-third were taking additional coursework. One-quarter of the graduates were both working and pursuing additional education. The unemployment rate for LPNs was 3.6 percent. Among the 39 LPN graduates employed in unrelated positions, the following were frequently listed: in temporary positions (N = 12), did not pass the licensing test (N = 8), found a better paying position in another field (N = 6), and preferred not to relocate (N = 5). Three out of four working LPN graduates started their current positions after program completion. Nine out of ten were employed in Illinois.

LPN graduates employed full-time earned \$11.61/hour or about \$24,150 annually. Community college graduates wages compare favorably with other new entrants, as well as continuing employees. According to *Horizons* (2000), starting wage in Illinois is around \$8.50/hour. According to the 1996 Occupational Wage Survey for Illinois, LPNs working in hospitals earned an average salary of about \$10.20/hour. LPNs working in doctor's offices earned about \$10.00/hour. A national survey conducted by the Bureau of Labor Statistics in 1997 reported that licensed practical nurses earned an average salary of about \$11.80/hour.

LPNs working in a related position were satisfied with their positions ($\underline{M} = 4.23$). LPN graduates were also satisfied with major program components ($\underline{M} = 4.22$). Labor market information provided was the least highest rated, but still in the satisfied range ($\underline{M} = 3.95$). LPN graduates were also satisfied with the services the college provided ($\underline{M} = 4.28$).

Comparisons between 1998 LPN graduates with 1993 completers reveals more similarities than differences. A slightly larger percentage of recent graduates were enrolled in continuing education. Unemployment levels remained low in both years at 3.6 percent. Full-time employment levels were within 1 percent of one another. The rate of training-related placements was somewhat higher in 1993.

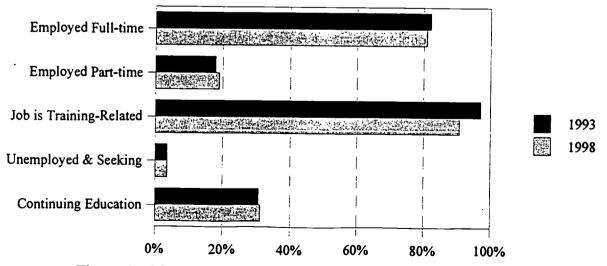


Figure 3: Licensed Practical Nursing Graduates: FY 1993 and 1998



Nursing aides is one of 50 occupations expected to provide the most job openings each year in Illinois. . . Opportunities for qualified nursing assistants should be good, particularly in areas of long-term and home health care. (Horizons 2000)

Nurse Assistant/Aide/CNA. Nurse assistant training is provided through short-term certificate programs. Nursing assistants perform routine patient care and housekeeping. Under the direction of a registered nurse or physician, their duties include basic healthcare, such as assisting patients in getting out of bed and walking; assisting patients with personal hygiene; taking temperatures; serving food and

assisting in feeding; and cleaning rooms and changing bed linens. In Illinois, over 58,535 people are employed in this large occupation. (*Horizons* 2000)

Nationally and in Illinois, growth much faster than average growth is expected through 2006. A growing elderly population and the accompanying expansion of long-term care facilities/programs and home healthcare should impact the occupation. Additional opportunities may arise as nursing assistants assume duties previously performed by more highly trained nursing staff. Many openings will also occur as individuals transfer to other occupations. (Horizons 2000)

The response rate for CNA graduates was a relatively low at 43.7 percent. Eighteen colleges provided information on their nursing assistant program graduates. Nine out of ten graduates who responded were either employed, enrolled in additional education, or both. Three-quarters of the working graduates were employed in full-time positions. Nearly three-quarters of the graduates were working in a related field. Of the 122 graduates working in an unrelated field, the following were the most frequently cited reasons: preferred to work in another field (N = 27), other (N = 26), found a better paying job in another field (N = 23), working in a temporary position (N = 17), chose not to respond (N = 10), and did not pass licensure test (N = 8).

Six out of ten graduates attained their current job after program completion. Eighty percent of working graduates were employed in the district where they received their training. Community college CNA graduates working full-time earned \$8.40 per hour or \$17,472 annually. According to *Horizons* (2000), the average starting wage for CNAs is about \$5.40/hour. The national average salary of nursing assistants in 1997 was \$7.50/hour. According to the 1996 Occupational Wage Survey for Illinois, average salaries for nursing assistants ranged from \$5.70-\$7.00/hour. (Horizons 2000)

Graduates working in a related field were satisfied with their positions ($\underline{M} = 4.22$). CNA graduates were among the most satisfied with the programs they completed ($\underline{M} = 4.46$) and the services the colleges provided ($\underline{M} = 4.35$).

A comparison between 1998 and 1993 graduates shows more recent graduates had lower unemployment, slightly greater part-time employment, were working more in the healthcare field, and both groups of graduates had similar continuing education patterns.



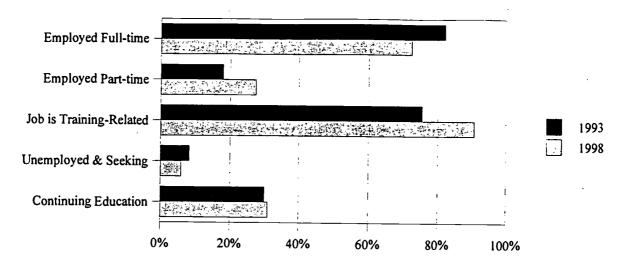


Figure 4. Nurse Assistant Graduates: FY 1998 and 1993

Medical assistants' duties vary with their employer. They assist in examinations, sterilize instruments, and maintain medical records. Medical assistants participate in the patient care process by providing routing

Medical Laboratory Aide/Phlebotomy.

patient care process by providing routine treatment and performing laboratory or clerical tasks. Under a physician's direction, they may give injections, assist in collecting samples for analysis (e.g., phlebotomy), perform standard laboratory tests, and order and maintain

supplies. Duties often overlap with those

"Medical assistants" is one of the top 50 fastest growing occupations in the state. Nationally, and in Illinois, employment of medical assistants is expected to increase much faster than average through 2006. Opportunities should be good for those who have completed a formal training program. (Horizons, 2000)

performed by medical secretaries (more clerical emphasis) and nurses (more clinical emphasis). (Horizons, 2000)

Two community colleges had Medical Laboratory Aide/Phlebotomy program graduates in fiscal year 1998, and only one program had respondents (20) which yielded a combined statewide response rate of 43.5 percent. The small number of respondents should be kept in mind as results are reviewed. All the graduates were either working, pursuing additional education, or both. Two-thirds began their positions after completing their program. Seven out of ten working graduates were employed in full-time positions. Eight out of ten working graduates were working in a related field. Among the four graduates working outside the area they were trained in, the following reasons were identified: other (N = 2), found a better paying job in another field (N = 1), and could not find a job in the field (N = 1).

Community college Medical Laboratory Aide/Phlebotomy program graduates employed in full-time positions earned \$9.72/hour or the equivalent of \$20,220 annually. Comparative data sources indicate that earnings vary widely, depending on experience, skill level, and location of employment.



According to a 1997 national survey, average hourly wages for medical assistants with less than two years of experience ranged from \$8.07-\$10.90 an hour. (Horizons, 2000)

Medical Laboratory Aide/Phlebotomy program graduates were satisfied with their employment (M = 4.25). They were among the most satisfied with the major components of the programs they completed ($\underline{M} = 4.68$). Medical Laboratory Aide/Phlebotomy graduates were satisfied with the services they received ($\underline{M} = 4.15$). They found the career planning aspects of the services they received was rated the lowest ($\underline{M} = 3.86$).

Compared to graduates from the same programs five years earlier, in both years, all graduates were either working, pursuing additional education, or both. Likewise, similar levels of employment were evident among both groups (1998 = 100 percent and 1993 = 96.2 percent); the percent of those employed out of district for current graduates (N = 4 or 21.1 percent) was less than half of the level for 1993 graduates (N = 12 or 54.5 percent).

Nationally, and in Illinois, employment in the field of recreational therapy is expected to increase faster than average through 2006. Opportunities in the field of recreational therapy are expected to be excellent. (Horizons, 2000)

Therapeutic Recreational Assisting.

Therapeutic recreational assistants help recreational therapists use social, cultural, and recreational activities to rehabilitate and restore patients' physical and emotional health. Therapeutic Recreational Assistants help plan and conduct activities such as athletics, choreographed movement, arts and crafts, etc., to assist individuals in their recovery from or

adjustment to illness or disability. Activities are designed to improve patients' mental outlook and physical well-being. As the therapy field grows, standard educational requirements are being established and a college degree is becoming more necessary. (*Horizons*, 2000)

Therapeutic Recreational Assisting graduates were reported by two community colleges and, with ten respondents, the response rate was 76.9 percent. The small number of respondents should be kept in mind as results are reviewed. All the graduates were either employed, enrolled in further training, or both. One third were both working and going to school in a related program. Seventy percent were working in a position related to their training. All completers were employed with seven of ten working in full-time positions. The reasons provided for working outside the area for three who were not in a related position were: previously worked in the field but changed, could not find a position in the field, and no reason provided. All were working in Illinois with eight out of ten employed in the district where they were trained. The point in time when graduates began their current position was relatively evenly distributed (before N=3; during N=4; and after N=3).

Community college Therapeutic Recreational Assistant program completers employed full-time earned \$9.03/hour or about \$18,780 annually. Neither *Horizons* (2000) nor the *Occupational Outlook Handbook* (1998-99) specifically address the occupation of therapeutic recreational assisting. Available information about recreational therapists, who would typically supervise recreational assistants and health aides, is furnished here to provide some context for the community college salaries. Recreational therapists working for Illinois state government in 1996 received an entry-level wage of \$22,620/year. According to a survey conducted by the American Therapeutic Recreation Association, salaries for beginning therapists averaged around \$23,960/year. (*Horizons*,



2000) General information on health aides from 1996 indicate median annual earnings of full-time salaried health aides and physical therapist aides were \$16,000. The middle 50 percent earned between \$13,000 and \$21,000 (Occupational Outlook Handbook, 1998-99). These data indicate that community college therapeutic recreational assisting respondent's salaries were competitive.

Satisfaction with employment for those working in the field (N = 6) among the therapeutic recreational assisting graduates was among the lowest in the study (\underline{M} = 3.50). Overall, graduates were more satisfied with the components of the programs they completed (\underline{M} = 4.34). Equipment, facilities, and materials were rated relatively low (\underline{M} = 3.89), but still in the satisfied range. Therapeutic Recreational Assistant graduates were satisfied with college services (\underline{M} = 4.02). Career planning was the lowest rated service (\underline{M} = 3.63).

Comparing recent graduates with those from five years ago shows similar results: in employment, continuing education, or both (100 percent for 1998 and 90 percent in 1993); employment (100 percent in 1998 and 90.0 percent for 1993); and employment in related areas (70 percent in 1998 and 75 percent in 1993). Eighty percent of the 1998 graduates were employed in the district where they completed their training compared to about two-thirds in district employment among 1993 completers.

AGRICULTURE. There were 270 agriculture-related graduates from ten programs who responded to the current Occupational Follow-up Survey. Graduates received training in a variety of agricultural occupations. Agriculture and related industries are an integral part of the Illinois economy. According to the Illinois Department of Agriculture:

Marketing of Illinois' agricultural commodities generates more than \$9 billion annually. Illinois' 76,000 farms cover more than 28 million acres -- nearly 80 percent of the state's total land area . . . Illinois is a leading producer of corn, soybeans, and swine. Corn accounts for nearly 40 percent of that total. Marketing of soybeans contributes about one-third, with the combined marketings of livestock, dairy and poultry generating about 23 percent . . . Billions more dollars flow into the state's economy from agriculture related industries, such as farm machinery manufacturing, agricultural real estate, and production and sale of value- added food products. Rural Illinois benefits principally from agricultural production, while agricultural processing and manufacturing strengthen urban economies. . . Food processing is the state's number-one manufacturing activity, adding almost \$13.4 billion annually to the value of Illinois' raw agricultural commodities. Nationally, Illinois ranks second in food processing. Most processors are located in the Chicago metropolitan area, which contains one of the largest concentrations of food-related businesses in the world. (http://www.agr.state.il.us/agfacts.html)

Recent events are a reminder of the potentially turbulent nature of the agriculture industry. Natural disasters, price fluctuations, federal farm policy changes, and a variety of other factors impact the industry. As reported by Reuters News Service, in October 1999 a record \$8.7 billion farm rescue package, the second farm bail-out in a year, was signed into law to offset U.S. crop disasters and ongoing low prices. A near record soybean harvest is forecast to bring the lowest average price since the agricultural recession of the mid-1980s. A global grain glut and weak markets for U.S. exports have depressed prices. One year ago farmers received \$5.9 billion in emergency aid as grain and hog



prices collapsed under the weight of a global grain glut and economic turmoil in countries that ordinarily are a major market for U.S. farm exports. Prices are not expected to recover until next autumn, if then. Recent events are expected to prompt a review of federal farm policy. (http://biz.yahoo.com/rf/991022/y5.html "Clinton Signs U.S. Farm Bailout," Charles Abbott, October 22, 1999, Reuters Limited, London, UK)

Continued consolidation is expected in the highly efficient farming industry as the trend toward fewer and larger farms continues. The farming industry relies increasingly on technology and science and progressive management to maintain profitability. According to *Horizons* 2000, fewer than 10 percent of the agricultural graduates enter production agriculture; most work in non-farm jobs that are closely related to agriculture.

Agricultural Business and Management.

These programs are designed to develop management skills for a diverse group of workers in both farm and off-farm ag-related industries. The nature of the work varies widely based on employer. Training leads to employment opportunities in off-farm businesses in sales, service, finance, and engineering in a range of agri-businesses including fertilizer, machinery or seed dealers, grain elevator operators, bank officers, etc. Managers of farms guide and assist farmers

Nationally, employment of farm managers is expected to continue to decline through the year 2006. Most job openings will result from the need to replace workers who retire or leave the occupation for economic or other reasons. (Occupational Outlook Handbook 1998-99) Predicting employment for off-farm workers is more challenging due to the variety of potential employers.

and ranchers in maximizing the financial returns by managing the day-to-day activities. Their duties and responsibilities vary substantially based on a number of factors including, farm size, independence of the operation, crops and/or livestock grown/raised, etc. The economic successes and failures of area farmers influence spending patterns at industry-related off-farm businesses employing agri-business and management graduates.

There were 78 Agri-business and Management respondents from nine Illinois community colleges yielding a response rate of 79.6 percent. Ninety-seven percent of the graduates were either working, enrolled in further coursework, or both. One-quarter of the graduates were both employed and enrolled in further education. Eight out of ten graduates were working. All 14 of the remaining Agri-business and Management graduates were not seeking employment. Ninety percent of working graduates were employed in full-time positions. Among employed graduates, 83.6 percent were working in a position related to their community college training. There was a variety of reasons for working outside the field including: found better paying job in another field (N = 3), took another job to get preferred work hours (N = 2), preferred to work in another field (N = 2), could not find job in the field (N = 1), working a temporary job (N = 1), and "other" (N = 1). Almost one-half of the graduates began their current positions after graduation. Nearly all graduates worked in Illinois with seven out of ten employed in the district where they completed the program.

Community college graduates working full-time earned \$8.93/hour or the equivalent of about \$357/week or \$18,575 annually. According to the *Occupational Outlook Handbook* (1998-99), salaries vary widely. Workers across all experience levels in full-time, salaried farm manager



positions reported median earnings of \$485 a week in 1996. The middle half earned between \$325 and \$650 a week.

In a trend noted in several agricultural occupations, satisfaction with employment was actually somewhat higher for graduates working outside the field ($\underline{M} = 4.44$) than those employed in agribusiness and management positions ($\underline{M} = 4.14$). Agri-business and Management graduates were satisfied with the programs they completed ($\underline{M} = 4.25$) and college services ($\underline{M} = 4.18$).

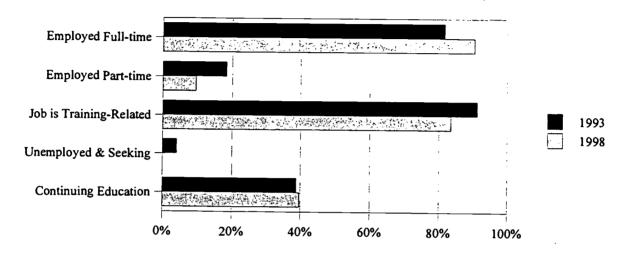


Figure 5. Agricultural Business and Management: FY 1993 & FY 1998

Comparisons between current Agri-business and Management completers and those from five years ago indicates a slight increase in both overall and full-time employment, a slight decrease in training-related placements, and stability in enrollment in further education with nearly four out of ten enrolling among both groups of graduates.

In Illinois, overall employment of farmers and ranchers is expected to increase slightly slower than the average for all occupations through 2006. Nationally, employment for farmers is expected to decline slightly. Despite a slight decline in employment growth, in Illinois, "farmers" is one of 50 occupations expected to provide the most job openings each year. (Horizons, 2000)

Agricultural Production Workers and Managers. General Agricultural Production programs prepare individuals to plan and cost-effectively use resources, such as land, water, chemicals, machinery, and labor, in the production of plant or animal products. The agricultural production industry accounted for 134,734 jobs in Illinois in 1996. About 85 percent of these workers were self-employed farmers. (Horizons, 2000) While these are among the more traditional agricultural fields, they require a range of skills and knowledge in areas such as chemistry, computer

technology, accounting, government rules and regulations, and a mechanical aptitude.



Ten community colleges reported results from 43 Agricultural Production Workers and Managers with a response rate of 56.6 percent. Nearly all graduates were working, going to school, or both. Nine out of ten were employed. The remaining five graduates were not actively seeking employment. Fourteen percent were both employed and pursuing additional education. Nearly one-quarter enrolled in additional coursework. Nine out of ten were working in an agricultural production-related position. Little information was available about the four graduates working in an unrelated occupation as three listed "other" as their reason and one was in a temporary job. The level of employment in their current position prior to starting college was the highest for Agricultural Production graduates. Six out of ten workers held their present jobs prior to program entrance, which suggests that these programs may be meeting the needs of family farmers. Nine out of ten were working in Illinois.

Community college Agricultural Production graduates working full-time earned \$8.02/hour or \$321/week or approximately \$16,680 annually. These wages are on the low end of all graduates responding to the current survey. Getting accurate information on salaries in this area is challenging since earning can vary substantially from one year to the next and even among localities due to the impact of weather conditions. The Illinois Department of Agriculture reports that the average realized net income for farmers, including all levels of experience, in 1994 was \$25,712/year. (Horizons, 2000) Full-time, salaried farm managers, with the exception of horticultural managers, had median earnings of \$485 a week in 1996. The middle half earned between \$325 and \$650 a week. The highest paid 10 percent earned about \$760 a week in 1996, while the lowest paid 10 percent made less than \$205 a week (Occupational Outlook Handbook, 1998-99)

Agricultural Production graduates working in the field were satisfied with their work ($\underline{M} = 4.12$). They were also satisfied with the major components of the programs they completed ($\underline{M} = 4.23$) and services provided by the colleges ($\underline{M} = 4.26$).

Agricultural Animal Husbandry and Production Management. Agricultural Animal Husbandry Production programs prepare individuals to manage, raise, and breed livestock. According to the Illinois Department of Agriculture, nearly 10 percent of Illinois farms raise swine. Beef cows are found on about 23 percent of farms, while about 3 percent have dairy cows. Agricultural Production Workers and Managers and Animal Husbandry and Production Management are closely related fields. Note that labor market information and earning data cited in the prior description, in conjunction with Agricultural Production Workers and Managers, are applicable here also.

Agricultural Animal Husbandry and Production Management is a relatively small program of study. Programs in this area by Black Hawk College, John Wood Community College and Parkland College combined to produce 11 survey responses and a response rate of 42.3 percent. Ninety percent of the graduates were working and all of them were employed full-time. Eight out of ten were in a related position. One graduate found a better paying job in another filed, and the other individual preferred not to relocate for work. Just one graduate was enrolled in further education and was studying in a related field. The point in time when graduates began their current position was relatively evenly distributed (before = 3; during = 4; and after = 3). Eight out of ten working graduates were employed in Illinois. Agricultural Animal Husbandry and Production Management graduates earnings were modest at \$7.50/hour for full-time workers or about \$300/week or \$15,600 annually. Graduates earnings were very near the bottom of the occupations covered in the survey.



Satisfaction ($\underline{M} = 3.75$) among individuals working in the field of agricultural animal husbandry were among the lowest in the study, but were still in the satisfied range. Agricultural animal husbandry graduates were satisfied with the programs they completed ($\underline{M} = 4.30$) and college services ($\underline{M} = 4.45$).

<u>Years Ago.</u> (Four-Digit CIP) Comparing current Agricultural Production results with those from five years ago requires combining current Agricultural Production Workers and Managers with Agricultural Animal Husbandry and Production since the last report was less detailed than the current one (four-digit versus six-digit CIP program identifier). Results from the Combined Agricultural Production (CIP 0103) area show current workers had higher levels of employment (88.9 percent for 1998 and 81.4 percent for 1993), more full-time employment, more training-related placements, and less involvement in continuing education. Among current graduates, the unemployed rate was zero. Six current graduates were not seeking employment.

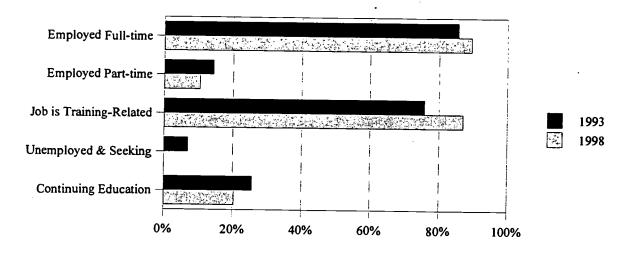


Figure 6. Combined Agricultural Production Managers & Animal Husbandry: FY 1993 & FY 1998

Equestrian/Equine Studies, Horse Management Equestrian Studies is a specialized program which prepares individuals to care for and ride horses and to manage their training, breeding, and housing.

Black Hawk College operated the only community college program in the state with eight of twelve graduates responding (66.7 percent). Seven of the eight graduates were working and two were pursuing additional education. One other had taken additional coursework since graduation, but was not enrolled at the time of the survey. Three-quarters were employed in the field. There were two graduates working in another field. One indicated that he was working a temporary job, and the other found a better paying position in another field. Nearly three-quarters began their current jobs after program completion. All Equestrian program graduates remained in Illinois, but worked outside the local community college district where they studied. The full-time worker reporting wages earned \$7.40/hour or \$15,390 annually for the lowest wages of any occupation in the survey. Directly comparable wage data were not readily available. For the general category of animal



caretakers, the entry salary rate is usually minimum wage. Those with some experience may start slightly higher. (*Horizons*, 2000)

Those working in the field were satisfied with their jobs ($\underline{M} = 4.40$). Graduates were also equally satisfied with the programs they completed ($\underline{M} = 4.38$) and college services ($\underline{M} = 4.38$).

Horticulture Services Operations and Management General. Horticultural workers plant and care for trees, bushes, vegetables, fruits, and other plants. They may spray and fertilize plants or sell them to the public. They may also manage or supervise others in field work, retail nurseries, greenhouses, or related businesses.

In Illinois, employment of horticultural workers is expected to increase much faster than the average for all occupations through 2006. Those individuals with some formal education or training will have the best chances for management positions. (Horizons 2000)

Fifty-two Horticulture graduates from ten community colleges returned surveys for a response rate of 70.3 percent. Eight out of ten graduates were either employed, attending classes, or both. A relatively low 72.5 percent of the Horticulture graduates were working at the time of the survey. This is tempered by the fact that they also exhibited the highest percentage of completers not seeking employment (23.5 percent) mostly because they were taking additional coursework. Overall, among those both working and not working, nearly one-third of the graduates were currently enrolled in additional education primarily in related programs. Similarly, 83.8 percent of employed graduates were employed in Horticulture-related positions. Six graduates were working in other fields: two found better pay elsewhere, one was working in a temporary job, and the others had unspecified (N = 2) or health related (N = 1) reasons for choosing another occupational area. About three-quarters of the working Horticulture graduates started their jobs either while enrolled or after graduation.

Horticulture graduates from community colleges working in full-time positions had average earnings of \$10.46 an hour or the equivalent of \$21,760 annually. Wages vary with type of employer, area of specialty, and extent to which supervisory or management responsibilities are involved. Starting wages in Illinois for horticulture workers averaged about \$5.50/hour. Average wages range from \$6.50-\$8.00/hour according to the 1996 Occupational Wage Survey for Illinois. (Horizons 2000) Salaries for community college Horticulture graduates point toward completers assuming more supervisory or managerial roles in the horticulture industry. According to the University of Minnesota, there are many employment opportunities in the horticulture industry, and salaries are as varied as the positions. Starting horticulturists and landscape designers have a salary potential of \$20,000 - \$25,000 per year (http://www.crk.umn.edu/academics/Hort/hort2.htm). Information provided by Purdue University (IN) estimates that starting salaries in the horticulture and landscape field are between \$23,000 and \$31,000, depending on experience (http://www.purdue.edu/UNS/html4ever/9812.Ag.briefs.html).

Job satisfaction levels ($\underline{M} = 4.41$) for those working in the horticulture industry were among the highest in the survey. Horticulture graduates were also satisfied with the major components of their programs ($\underline{M} = 4.35$) and the services the colleges provided ($\underline{M} = 4.39$).



Arboriculture. Arboriculture is a specialty area focusing on the care of woody plants and trees, including their planting, pruning, and removal. Graduates are knowledgeable about tree and site selection, site preparation, and disease and insect control. There are a variety of potential employers, including nurseries,

Generally, Horizons (2000) and the Occupational Outlook Handbook (1998-99) project growth in horticulture-related industries through 2006.

landscapers, utilities, forestry departments, and other governmental agencies, as well as self-employment.

Southeastern Illinois College, the College of Lake County, and William Rainey Harper College were the three colleges with active arboriculture programs. This is a small program and ratings are based on seven completed surveys that corresponds with a response rate of 77.8 percent. All seven were working in full-time positions, and five were in related jobs. Among those working outside the field, one found a better paying job in another field and the other was not successful locating a job in the field. Six out of seven Arboriculture graduates found their current positions either while enrolled or after program completion. The six full-time workers who furnished salary information had above average earnings at \$13.05 per hour or about \$27,150 annually. There are a variety of positions that relate to this major. Salary information from a few sources follow: forestry technicians and aides who worked for the Federal Government in 1997 averaged about \$28,300. (Occupational Outlook Handbook, 1998-99) According to the University of Minnesota, there are many employment opportunities in the horticulture industry, and salaries are as varied as the positions. Starting horticulturists and landscape designers have a salary potential of \$20,000 to \$25,000 per year (http://www.crk.umn.edu/academics/Hort/hort2.htm). Information provided by Purdue University (IN) estimates that starting salaries in the horticulture and landscape field are between \$23,000 and \$31,000, depending on experience (http://www.purdue.edu/UNS/html4ever/9812.Ag.briefs.html).

Program graduates employed in Arboriculture were satisfied with their positions ($\underline{M} = 4.60$). Graduates reported similar levels of satisfaction with the components of the programs they completed ($\underline{M} = 3.99$) and college services ($\underline{M} = 3.72$).

Floral designers should experience faster growth than the average for all occupations through the year 2006. (Occupational Outlook Handbook, 1998-99)

Ornamental Horticulture Operations and Management. Ornamental horticulture involves the selection, cultivation, and arrangement of flowers, greenery, and decorative containers to develop aesthetically pleasing displays for sale to the public. Cut flowers, cut greens, potted plants, foliage

plants, bedding plants, and indoor decoratives are used in ornamental horticulture. In addition to self-employment, opportunities exist through florists, supermarket floral shops, greenhouses, and other businesses which provide related materials and supplies.

Seven community colleges reported completers in Ornamental Horticulture programs with 27 respondents for a response rate of 87.1 percent. William Rainey Harper College contributed the largest group of graduates (N = 11). Ninety-two percent of the graduates were employed, pursuing further education, or both. More specifically, nearly a quarter of the graduates were both working and attending classes. Eight-five percent were working, and two-thirds of them were in full-time



positions. Two-thirds were working in the district where they went to college. Likewise, nearly two-thirds started their most recent position while enrolled in the ornamental horticulture program or after graduating.

Four out of ten working graduates were employed <u>outside</u> the field of ornamental horticulture, which is relatively high in comparison to graduates from other programs. Those working in a related position were satisfied with their work ($\underline{M} = 3.70$) compared to a more neutral satisfaction rating for those working outside the filed ($\underline{M} = 2.80$). Reasons for working in an unrelated position for these nine graduates included: three did not provide a reason, two could not find a related position, two found higher wages in another field, and two preferred to work outside the horticulture industry.

Few Ornamental Horticulture graduates supplied earnings data. One-half (N = 7) of the full-time workers who graduated from community colleges supplied wage data indicating an average salary of \$10.52/hour or about \$21,880 annually. According to a 1996 survey conducted by Floral Finance Incorporated, beginning floral designers had average earnings of \$5.85 an hour. Designers with one to three years of experience earned \$6.94, while designers with over three years of experience averaged \$8.17. Managers had average earnings of \$10.10 per hour in 1996. (Occupational Outlook Handbook, 1998-99) (http://stats.bls.gov/oco/ocos090.htm)

Ornamental Horticulture graduates were among the most satisfied groups with the programs they completed ($\underline{M} = 4.56$). They rated each program component consistently high. College services were also highly rated by these graduates ($\underline{M} = 4.52$). Student activities received the highest possible score from ornamental horticulture graduates ($\underline{M} = 5.00$). College library and audio-visual services received very high ratings as well ($\underline{M} = 4.88$).

Greenhouse Operations and Management.

Nursery and greenhouse managers make decisions about the type and quantity of horticultural plants to be grown; select and purchase seed, fertilizers, and disease control chemicals; hire laborers and direct and coordinate their activities; manage record keeping, accounting, and marketing activities; and generally oversee operations. Greenhouse products include cut flowers, potted plants,

Through the year 2006, the need for nursery and greenhouse laborers and managers will grow due to the continued popularity of home gardening, as well as the need to cultivate and provide the vegetation used by landscaping services. (Occupational Outlook Handbook, 1998-99)

bedding plants, and vegetables (*Occupational Outlook Handbook*, 1998-99). Combined wholesale and retail sales in the greenhouse and nursery industry is an estimated \$40 billion annually, while the number of producers exceeds 37,000 in the U.S. alone (http://www.vtc.vsc.edu/catalog/degprogs.htm#).

Greenhouse Operations is a very small program. Kishwaukee College and Triton College reported graduates, and seven of eight responded (87.5 percent). Five graduates were employed, one was exclusively enrolled in additional education, and one was both working and going to school. All working graduates were in positions related to greenhouse operations. Three were working full-time, and two were in part-time positions. Four of the five were employed in the community college district where they were educated.



Two full-time Greenhouse Operation workers reported wages of \$10.38 an hour or about \$21,590 annually. The University of Minnesota estimates that starting horticulturists and landscape designers have a salary potential of \$20,000 to \$25,000 per year (http://www.crk.umn.edu/academics/Hort/hort2.htm). Greenhouse Operation program graduates reported a relatively low job satisfaction level ($\underline{M} = 3.40$) which reflects a neutral satisfied rating. The programs they completed were rated highly ($\underline{M} = 4.76$) and so were college services ($\underline{M} = 4.59$).

"Lawn service managers" is among the top 50 fastest growing occupations in the state. (Horizons, 2000)

Landscaping Operations and Management. Landscaping involves the science and art of designing, installing, and maintaining attractive combinations of plants, trees, flowers, and other greenery, as well as the production and sale of plants materials. In addition to plant materials,

construction materials and furnishings can be used to customize outdoor settings. Landscaping graduates may pursue career opportunities in areas such as ornamental production; horticulture and landscaping-related marketing, procurement, and quality control; landscaping supervision and management; and technical sales and services.

Six Illinois community colleges reported results from 27 Landscaping program graduates for a 75.0 percent response rate. Triton College and Kishwaukee College accounted for just over one-half of the respondents (N=14). Ninety-three percent of the Landscaping graduates were either employed, pursuing additional education, or both. Nine out of ten Landscaping Operations graduates were employed. Among working graduates, 87.5 percent were in full-time positions. Nearly 80 percent of those employed were working in the field of landscaping. Graduates working in the field reported high levels of satisfaction with their jobs ($\underline{M}=4.11$). For the five graduates working in another field, three did not provide a specific reason, one found a better paying job elsewhere, and one could not find a job in the field of preparation.

Eight out of ten graduates began their current employment either while enrolled in the program or after graduating. While Landscape program graduates remained in state, as a group they were more mobile than most program graduates. Just over one-half of the Landscaping graduates were employed outside the community college district where they completed their studies. Nearly all the rest worked in-district. Landscaping Operations completers reported high degree of satisfaction with the programs they completed ($\underline{M} = 4.17$) and college services ($\underline{M} = 4.30$).

Community college Landscaping Operations graduates working full-time earned \$13.59/hour or about \$28,267 annually. Though directly comparable information was difficult to obtain, information available from Purdue University (IN) estimates that starting salaries in the horticulture and landscaping field are between \$23,000 and \$31,000, depending on experience (http://www.purdue.edu/UNS/html4ever/9812.Ag.briefs.html). The University of Minnesota estimates that starting horticulturists and landscape designers have a salary potential of \$20,000 to \$25,000 per year (http://www.crk.umn.edu/academics/Hort/hort2.htm).



Turf Management. Turf Manager graduates have skills to cultivate, manage, and maintain grassed areas for recreational and/or ornamental purposes. Graduates are knowledgeable about pest and disease control, irrigation, and the operation and maintenance of turfgrass equipment. Graduates often seek employment at golf courses and are qualified for technician positions such as course greenskeeper. With experience, graduates have the potential to

In Illinois, increasing construction of commercial and recreational areas should stimulate faster than average demand for groundskeepers and related occupations through 2006. Some positions are seasonal work. Opportunities for qualified people should be excellent. (Horizons, 2000)

move into management positions such as greens supervisor, course superintendent, or assistant superintendent. Turf Managers also work on residential and commercial lawns, athletic fields, parks, recreation areas, sod farms, and other areas where turfgrasses are grown.

Turf Management is a small specialty program at community colleges. All ten Turf Management graduates responded from the programs offered by Kishwaukee College, College of DuPage and Joliet Junior College. Kishwaukee College's program was responsible for eight out of ten graduates statewide. Turf Management programs include extensive lab hours and often have an internship component. All ten graduates were employed in full-time positions in the turf management industry. Job satisfaction among Turf Management graduates was the lowest ($\underline{M} = 3.33$) among all the programs for completers working in their chosen field.

Turf Management graduates were all employed in Illinois with two-thirds working outside the community college district where they went to school. Just over one-half of the Turf Management graduates begin new positions while enrolled or after program completion. A relatively high 44.0 percent were continuing in the same position they had prior to program entrance. No Turf Management graduates were pursuing additional education

Community college Turf Management graduates employed in full-time positions earned \$11.86/hour or \$24,669 on an annual basis. According to Purdue University, starting salaries vary widely depending on the area of the country, but range from \$23,000 to \$26,000 a year plus benefits for graduates with a bachelors degree. Hence, these community college graduates are earning competitive wages (http://www.agry.purdue.edu/turf/academ/bachelor.htm).

Overall, graduates were satisfied with the programs they completed ($\underline{M} = 4.08$). Job preparation aspects of the program ($\underline{M} = 3.63$) and labor market information ($\underline{M} = 3.78$) were perceived as areas for improvement, but ratings were still in the satisfied range. Turf Management graduates were largely satisfied with the support services the colleges provided ($\underline{M} = 4.21$). The only service component rated relatively low was transfer planning ($\underline{M} = 3.00$).

Overall Comparison of Combined Horticulture Results With Those from Five Years Ago. (Four-Digit CIP) Comparing current Horticulture Services and Operations and Management results with those from five years ago can only be done at the broadest program level. The last report was less detailed than the current one (four-digit versus six-digit CIP program identifier). Results from the Combined Horticulture Services and Operations and Management (CIP 0106) area show comparable levels of employment between the groups (82.0 percent for 1998 and 83.5 percent for



1993). Recent graduates exhibited higher part-time employment, a slightly smaller percentage of training related placements, lower unemployment, and greater involvement in continuing education.

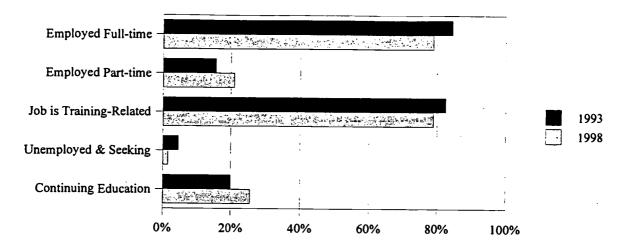


Figure 7. Combined Horticulture Services and Operations Management: FY 1993 & FY 1998

Wildlife and Wildlands Management.

Wildlife Management graduates knowledgeable about the principles and practices used in the production and improvement of wildlife resources for aesthetic, ecological, and recreational uses of public and private lands. Employment is typically found among federal and state conservation-related agencies in positions such as fish and wildlife technicians, park rangers, or in private consulting firms. Fish and wildlife technicians are responsible for breeding, raising, and protecting wildlife including fish, birds, deer, and other species. They often record data on the number and

The outlook for graduates is mixed. Illinois employment in related occupations is small. In Illinois and nationally, park ranger employment shows little or no employment growth and low turnover. Nationally, employment opportunities for fish and wildlife technicians are expected to be good through 2006. Nationally, fish farming may provide for limited growth. Individuals with formal education or training in fish and wildlife sciences or related fields should have the best opportunities. (Horizons, 2000)

distribution of fish and wildlife and initiate habitat improvement programs. Park rangers protect, maintain, and oversee the appropriate use of parks and historical sites. They enforce regulations, register visitors, provide information, and patrol the area to prevent fires and protect natural surroundings. Park rangers also may plan conservation programs and recreational activities.

Wildlife and Wildlands Management is a small specialty program. Eight Wildlife Management graduate respondents from Southeastern Illinois College (N = 7) and Shawnee Community College (N = 1), both located in southern Illinois, resulted in a response rate of 57.1 percent. Seven out of eight Wildlife program graduates were employed in full-time positions. Six of the seven working graduates were employed in the field and indicated that they were satisfied with their positions (M = 4.00). One graduate was unemployed and looking for a job. Two graduates were both working and



participating in further Wildlife and Wildlands-related classes. All graduates obtained their current jobs either while enrolled (N = 2) or after graduation (N = 5).

Community college Wildlife Management graduates working full-time earned \$10.24/hour or about \$21,300 annually. Entry salaries within the State of Illinois for fish and wildlife technicians in 1996 were about \$20,690/year. The maximum is around \$33,220/year. In 1996, park rangers employed by the Illinois Department of Conservation earned an entry-level salary of around \$23,600/year and a maximum salary of about \$33,220/year. Beginning rangers in the National Park Service usually earn an entry-level salary of about \$17,000/year. More experienced or educated rangers may enter the Park Service at a starting salary of \$25,000/year. (Horizons, 2000) Community college Wildlife Management graduates earned competitive wages.

Overall, Wildlife Management graduates were consistently satisfied with the programs they completed ($\underline{M} = 4.54$). Ratings were among the highest for graduates from any program who responded to the current survey. Approval of community college services was also very high for wildlife management completers ($\underline{M} = 4.75$). College financial aid and tutoring services received perfect ratings ($\underline{M} = 5.00$).

General Retailing Operations. Graduates develop marketing skills to apply in retail establishments. Individuals involved in retailing identify desirable product attributes and product benefits to sell merchandise directly to customers (e.g., clothes, home furnishings, personal care items, durable goods, etc.).

In Illinois, "retail salespersons" is one of 50 occupations expected to provide the most job openings each year. Prospects are best for people who are knowledgeable about specific products sold in retail and wholesale outlets and for those with some sales experience. (Horizons, 2000)

Five colleges had eleven General Retailing

Operations graduates respond to the occupational follow-up survey for a response rate of 42.3 percent. Wabash Valley College (N = 5) and Lake Land College (N = 3) combined for almost three-quarters of all replies. The ten graduates who supplied employment information were all working full-time. One General Retailing graduate was both working and going to school in a program related to General Retailing Operations. Three-quarters of those providing information about relatedness of employment were working in retail and they were satisfied with their positions (M = 4.00). The two who were working outside the retail industry either could not find a related position or went to another field for better pay. All working graduates were employed in Illinois with in-district employment accounting for three-quarters of the employment. General Retailing graduates were pretty evenly distributed in terms of when they earned their current jobs: prior to entry (N = 3), while enrolled (N = 2), and after program completion (N = 3).

Community college General Retailing Operations completers in full-time positions earned \$9.61 an hour or the equivalent of about \$19,990 annually. Salaries in retail sales vary substantially depending upon experience; level of responsibility; and type, size, and location of the retail operation. Most receive an hourly rate and some also receive a commission on sales. Starting wage for part-time retail sales positions is usually minimum wage (\$5.15/hour). Nationally, average salaries for retail salespeople in 1997 ranged from about \$7.10-\$11.85/hour. In Illinois, retail salespeople earned a starting wage of \$6.40/hour in 1996. Supervisors or managers of sales workers



in the retail trade industry who usually worked full time had median annual earnings of \$24,400 in 1996. The middle 50 percent of retail supervisors earned between \$16,900 and \$34,400. (Horizons, 2000). Salaries for community college General Retailing Operations graduates point toward positions with more supervisory or managerial responsibilities.

General Retailing Operations graduates were highly and equally satisfied with course-related components ($\underline{M} = 4.50$) and college services ($\underline{M} = 4.54$).

Generally, employment of sales representatives, is expected to grow faster than the average for all occupations through the year 2006. Growth will vary based on patterns in the industries in which sales activities are concentrated. (Occupational Outlook Handbook, 1998-99)

General Selling Skills and Sales Operations. Graduates from General Sales programs may work in a sales capacity in a variety of industries including financial services, wholesale trade, specialty equipment, manufacturing, etc. Traveling to and visiting with prospective buyers and current clients is a major activity. Chances for success in sales

improve based on several factors, including a strong customer service orientation, a product line with some unique features, competitively priced merchandise, and a territory with a desirable profile.

Nineteen community colleges furnished information from 82 General Sales graduates for a response rate of 59.9 percent. The College of DuPage (N=13), Chicago's Wilbur Wright College (N=12), and the College of Lake County (N=11) contributed the largest number of responses. Overall, 92 percent of the Selling/Sales graduates were employed. Likewise, 92.1 percent of the working graduates were employed in full-time jobs. Three graduates were unemployed, and three others were not actively seeking employment.

Just over three-quarters of the graduates were working in sales-related positions. Reasons cited for working outside the area where graduates were trained were diverse. The two major reasons cited by Selling/Sales graduates were finding higher wages in another field (N = 5) and due to other reasons not among those listed on the survey (N = 7). A few took non-sales jobs based on personal preferences: preferred another field (N = 1), preferred not to relocate (N = 1), and preferred another field for better work hours (N = 1). One could not find work in the field and another considered their current position a temporary job.

Looking at participation in both education and employment among Selling/Sales graduates shows that 97.6 percent were either employed, attending college, or both. Seventeen of the eighteen graduates who participated in both work and school were pursuing coursework related to sales. Almost four in ten graduates took additional coursework at some time since finishing their community college program. Selling/Sales graduates were using the program both to build skills for existing jobs and for career enhancement. At the time of the survey, just over one-third of the Selling/Sales graduates had the same positions as when they entered the program, nearly one-quarter located their position while enrolled, and 42.9 percent found their current jobs after graduating. Nearly three-quarters of the graduates were employed in the community college district where they attended classes.



Selling/Sales graduates from community colleges working full-time earned \$14.19/hour or the equivalent of \$29,515 annually. Earnings vary widely based on a variety of factors, including industry of affiliation, products or services sold, region/territory covered, etc. According to the 1996 Occupational Wage Survey, sales representatives in Illinois average from \$24,540 to \$42,000 per year based on location in the state. (Horizons, 2000) According to Dartnell Corporation's 1996 Sales Compensation Survey, entry-level sales representatives received \$36,000 in average total cash compensation (Occupational Outlook Handbook, 1998-99).

A comparison of current General Selling Skills and Sales Operations results with those from five years earlier shows higher employment levels for current graduates (92.7 percent for 1998 and 87.3 percent for 1993). Recent graduates had higher levels of full-time employment, a greater percentage of training-related placements, lower unemployment, and lower involvement in continuing education.

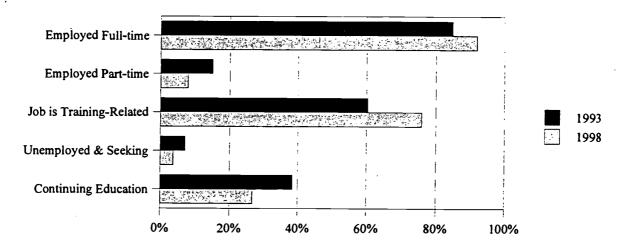


Figure 8. General Selling Skills and Sales Operations: FY 1993 & FY 1998

General Distribution Operations. Graduates develop skills in marketing services in wholesale establishments. They may work in a variety of occupations, including wholesale sales representatives or, on the opposite end of the transaction, as purchasers or buyers. Wholesale sales representatives market products and work to interest wholesale and retail buyers and purchasing agents in their merchandise and address current client concerns. Three of every four wholesale sales representatives worked in wholesale trade

Overall, employment of manufacturers' and wholesale sales representatives is expected to grow about as fast as the average for all occupations through the year 2006. Employment of purchasers and buyers is expected to increase more slowly than average over the same period. Most job openings will be for replacement workers. (Occupational Outlook Handbook, 1998-99)

mostly for distributors of machinery and equipment, groceries and related products, and motor vehicles and parts. Purchasers (for in-home use) and buyers (for resale) seek to obtain the highest quality merchandise at the lowest possible price for their employers. They identify quality products or services, choose suppliers, negotiate prices, and award contracts. About one-half of all purchasers and buyers worked in wholesale and retail trade establishments such as grocery or department stores,



and another one-fourth worked in manufacturing. The remainder worked mostly in service establishments or different levels of government. (Occupational Outlook Handbook, 1998-99).

Thirty-four General Distribution Operation graduates from five colleges returned completed surveys for a response rate of 64.2 percent. William Rainey Harper College and the College of DuPage together accounted for nine out of ten graduate respondents. All graduates were either employed, in school, or both. Ninety-seven percent were employed, and all those working were in full-time jobs. All but one were working in a related field (96.9 percent). Those working in the field were satisfied with their jobs ($\underline{M} = 4.26$). One graduate was not actively seeking employment. One-half the graduates were taking additional coursework mostly related to wholesaling. Most General Distribution Operation graduates obtained their current jobs either prior to program entrance (43.8 percent) or while enrolled (37.5 percent). Overall, General Distribution Operation graduates rated the program components ($\underline{M} = 4.45$) and college services ($\underline{M} = 4.15$) highly.

Earnings for full-time workers among community college General Distribution Operation graduates who reported earnings data were substantial at \$19.59 an hour or nearly \$40,750 annually. Median annual earnings of purchasers and buyers was \$33,200 in 1996. The middle 50 percent earned between \$23,300 and \$45,900. Median annual earnings of full-time manufacturers' and wholesale sales representatives were about \$36,100 in 1996. The middle 50 percent earned between \$24,900 and \$51,900 per year. (Occupational Outlook Handbook, 1998-99). Earnings for community college General Distribution Operation graduates were very competitive.

A comparison of current General Distribution Operations results with those from five years ago shows higher employment levels for current graduates (97.1 percent for 1998 and 91.3 percent for 1993). Results were positive for both groups of graduates. All current working graduates were in full-time positions, and the unemployment rate for current graduates was zero. Recent graduates had higher levels of training-related placements and greater involvement in continuing education.

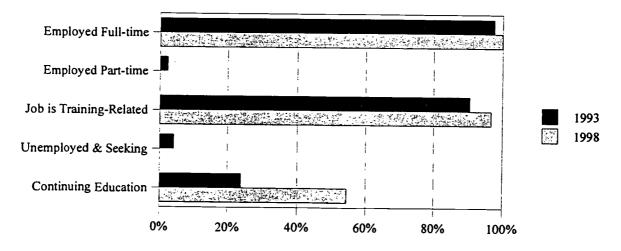


Figure 9. General Distributions Operation: FY 1993 & FY 1998



Travel Services Marketing Operations. Graduates furnish travel information and act as agents in arranging travel and tours. Travel agents, tour guides, meeting planners, airline reservation agents, rental car agents, and travel counselors are some of the related occupations. Their work involves organizing or scheduling business, educational, or recreational travel or activities.

Employment in the travel industry is expected to grow faster than the average for all occupations through the year 2006. Most job openings will arise based on the need for replacement workers. Spending on travel is expected to increase significantly over the next decade. (Occupational Outlook Handbook, 1998-99) Structural changes in how these services are paid for and increases in individuals making travel arrangements directly via the internet may effect future prospects.

Seven colleges provided information

from 87 Travel Services Marketing Operations graduates for a response rate of 50.6 percent. The College of DuPage (N = 54) accounted for nearly two-thirds of the responses. Ninety-one percent of the Travel Services graduates were either employed, enrolled in additional education or both (N = 18). Eighty-three percent (N = 72) were employed. Among working graduates, 70.8 percent were employed in full-time positions. Four graduates were unemployed, and eleven were not seeking employment. Nearly all graduates were employed in Illinois with three-quarters working in the college district were they were trained. One in four graduates was enrolled in additional education with just over half of their studies related to Travel Services.

Slightly less than one-half of the working graduates were employed in a position related to Travel Services. These results show very low employment in a related field among Travel Services graduates. Reasons for working outside the Travel Services industry included: temporary employment (N = 9), preferred to work in another field (N = 6), found better pay in another field (N = 5), could not find a job in the field (N = 5), worked previously in the field but changed (N = 5), other (N = 4), took job to get preferred work hours (N = 3), and preferred not to relocate (N = 1). Additional investigation about why such a substantial portion of the Travel Services graduates are choosing to work outside the field seems warranted.

Survey results indicate that overall Travel Services graduates were very satisfied with the programs they completed ($\underline{M} = 4.43$) and college services ($\underline{M} = 4.28$). Career planning ($\underline{M} = 4.15$), labor market information ($\underline{M} = 4.23$), and job preparation ($\underline{M} = 4.55$) and were all rated highly among Travel Services graduates. Graduates working in travel industry-related positions were slightly more satisfied with their work ($\underline{M} = 4.36$) than those working in other fields ($\underline{M} = 4.06$).

Travel Service program graduates working full-time earned \$11.86 per hour or about \$24,670 annually. According to a Louis Harris survey conducted for *Travel Weekly*, 1996 median annual earnings of travel agents on straight salary with less than one year experience were \$16,400; from one to three years, \$20,400; from three to five years, \$22,300; from five to ten years, \$26,300; and more than ten years, \$32,600. Agencies focusing on corporate sales tend to pay higher salaries.

According to the *Occupational Outlook Handbook* (1998-99), commissions for domestic travel arrangements, cruises, hotels, sightseeing tours, and car rentals are about 7 to 10 percent of the total sale; for international travel, about 10 percent. Some recent changes in the commissions paid to travel agents by the airline industry may diminish the profitability of related travel service marketing



or cause them to charge for their services. Recently, the industry-wide airline commission rate paid to travel agents was about 8 percent of the applicable base fare with a "capped" maximum of \$50 per ticket since 1995. In October 1999, one of the major airlines announced a commission reduction to 5 percent of the applicable base fare and within days most other major carriers followed their lead. Commissions are often split between the travel agent and the agency. Over 84 percent of travel agencies now charge their clients 'service fees' between \$5 and \$200 according to a recent American Society of Travel Agents survey of its members (http://skitrips.net/faqs/profit.html).

As internet use continues to grow, there is a likelihood that larger numbers of people will make their own travel arrangements directly via the internet. The extent to which individuals choose to utilize this option will impact the travel services industry.

Comparing current Travel Services Marketing Operations results with those from five years ago show comparable levels of employment between the groups (82.8 percent for 1998 and 83.1 percent for 1993) and similar levels of full-time employment. Recent graduates had a lower percentage of training-related placements, lower unemployment, and greater involvement in continuing education.

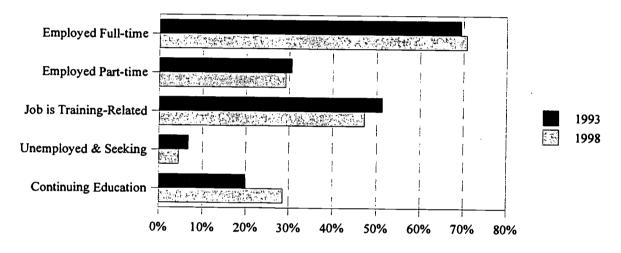


Figure 10. Travel Services Marketing Operations: FY 1993 & FY 1998

Environmental and Pollution Technology.

Graduates develop knowledge and skills to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using indoor and outdoor environmental pollution control systems and in disposing of hazardous materials. Graduates are knowledgeable about environmental safety, related governmental regulations and permits, bio-hazards, testing and sampling procedures. laboratory techniques, instrumentation calibration, hazardous waste disposal procedures and systems, safety and protection

Employment of science technicians is expected to increase about as fast as the average for all occupations through the year 2006. Growth should also be fueled by demand for technicians to help regulate waste products, collect air, water, and soil samples to measure levels of pollutants, monitor compliance with environmental regulations, and clean up contaminated sites. Environmental inspector positions will grow slower than average. Occupational Outlook Handbook, 1998-99)



procedures, equipment maintenance, and report preparation. They may work as environmental technicians, environmental health inspectors, or related occupations.

Environmental technicians may perform laboratory and field tests to monitor environmental resources and determine the contaminants and sources of pollution. They may collect samples for testing or be involved in controlling or correcting pollution sources. They may be responsible for waste management operations, control and management of hazardous materials inventory, or general activities involving regulatory compliance. There is a growing emphasis on pollution prevention activities.

Environmental health inspectors work primarily for state and local governments to ensure that food, water, and air meet government standards. They check for the cleanliness and safety of the handling, processing, and serving of food for compliance with sanitation rules and regulations and oversee the treatment and disposal of sewage, refuse, and garbage. In addition, inspectors may visit pollution sources and test for pollutants by collecting air, water, or waste samples for analysis. They try to determine the nature and cause of pollution and initiate action to stop it.

Environmental and Pollution Technology Operations is a small specialty program with nine responding graduates reported by Black Hawk College and Chicago's Wilbur Wright College (response rate 52.9 percent). Seven graduates were employed in full-time positions, and the two remaining graduates were unemployed. Three-quarters of the graduates were working in the district where they received their training. Three of seven graduates had their current positions before they entered the program. One graduate was both working and pursuing further education. At the time of the survey, two were enrolled in further education related to Environmental Pollution and Technology. One was employed in an industry-related position.

Only two of the seven graduates who reported the relatedness of their job to their studies were working in the field of Environmental and Pollution Technology Operations. Reasons provided by Environmental and Pollution Technology Operations graduates working outside the field included: found a better paying jobs in another field (N = 2), preferred to work in another field (N = 1), and two gave reasons other than those listed on the survey. Graduates working in related positions (M = 4.50) were more satisfied with their jobs than those working in other fields (M = 3.60).

Environmental and Pollution Technology Operations graduates reported high levels of satisfaction with the programs they completed ($\underline{M} = 4.32$). Job preparation was rated lowest, but still in the satisfied range ($\underline{M} = 3.78$). Graduates from Environmental and Pollution Technology Operations programs were especially positive about college services ($\underline{M} = 4.49$).

Illinois community college Environmental and Pollution Technology Operations graduates employed in full-time positions earned \$15.22 an hour or about \$31,658 annually. Median annual earnings of science technicians were about \$27,000 in 1996; the middle 50 percent earned between \$19,800 and \$37,100. Median annual earnings were about \$31,100 for chemical technicians and about \$25,200 for biological technicians in 1996. Environmental protection assistants earn approximately \$29,090 (Occupational Outlook Handbook, 1998-99). Environmental and Pollution Technology Operations graduates from community colleges are earning competitive wages.



Exercise Sciences/Physiology and Movement

Studies. Exercise Sciences/Physiology programs involve the scientific study of anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Graduates gain knowledge of biomechanics, motor behavior, motor development and coordination, motor

Employment in positions such as occupational therapy assistants and aides and physical therapist assistants and aides, recreational leaders and workers are expected to grow faster than average through the year 2006. (Occupational Outlook Handbook, 1998-99.)

neurophysiology, rehabilitative therapies, the development of diagnostic and rehabilitative methods and equipment, and related analytical methods and procedures.

William Rainey Harper College was the only community college with Exercise Sciences/Physiology and Movement Studies graduates. Nine out of ten graduates responded to the survey. All graduates were employed and all were working in related positions. One was both working and attending classes in a related area. All began their current positions either during enrollment (33.3 percent) or after program completion (66.7 percent). Exercise Sciences/Physiology program graduates working in the field were highly satisfied with their jobs ($\underline{M} = 4.89$). They were satisfied with the program they completed ($\underline{M} = 3.93$) and rated equipment and facilities the lowest of all the program components ($\underline{M} = 3.75$). Exercise Sciences/Physiology and Movement Studies graduates were highly satisfied with college services ($\underline{M} = 4.46$) and gave perfect ratings ($\underline{M} = 5.00/5.00$) to financial aid, career planning, counseling, and student activities.

There were only two Exercise Sciences/Physiology and Movement Studies graduates in full-time positions who reported wage data and they earned \$20.50 an hour or the equivalent of \$42,640 annually. The two part-time workers who were employed in the field reported earnings of \$15.00 an hour. The college where this program operates is in a relatively affluent part of the state. Locating directly comparable salaries was problematic. Available information about starting salaries for physical therapist assistants indicates that they averaged about \$24,000 a year in 1996 and that experienced assistants working in private practice earned an average of about \$30,000 in the same year. In 1996, median annual earnings of full-time salaried health aides, including physical therapist aides, were \$16,000. The middle 50 percent earned between \$13,000 and \$21,000. According to a membership survey of the American Occupational Therapy Association, mean annual income for new full-time occupational therapy assistants was about \$27,442 in 1995. Based on limited information, occupational therapy aides usually start between \$6.50 and \$7.50 an hour (Occupational Outlook Handbook, 1998-99).

<u>Construction Trades (Integrated)</u>. Graduates from an integrated program in construction trades have developed skills in several core areas, including carpentry; plumbing, masonry, basic electrical work; interior and exterior surface preparation; and painting, staining, and covering. Since carpenters are the largest group of building trades workers (996,000 jobs nationwide in 1996) and those skills are central to the program, carpenters will be used as a reference point for integrated construction graduates.

While job opportunities are generally plentiful, the increasing use of prefabricated components and improvements in technology (stronger adhesives, lightweight cordless pneumatic tools, etc.) will



Employment in construction trades varies by region and economic climate. Carpentry is the largest construction trade. Job opportunities for carpenters are expected to be plentiful through the year 2006, due primarily to extensive replacement needs in this high turnover occupation. Employment is expected to increase more slowly than average for all occupations through the year 2006. Occupational Outlook Handbook, 1998-99

impact the number of construction workers needed. Building activity depends on numerous factors including interest rate fluctuations which vary with the state of the economy. Additionally, job opportunities for construction workers tend to vary by geographic area mirroring the movement of people and businesses. Periods of unemployment for workers in this field are not uncommon.

Five colleges had Integrated Construction Trades graduates who responded to the survey.

Eighteen graduates responded for a response rate of 41.9 percent. Parkland College, Belleville Area College, and South Suburban College each contributed five responses. Ninety percent of graduates were either working, attending courses, or both (N = 4). Among working Integrated Construction Trades graduates, almost nine out of ten were employed full-time (N = 14). Seven out of ten located their current position either while enrolled or after graduating. Eighty-five percent were working in Illinois. Three-quarters of working graduates were employed in a related field. The four graduates working outside of construction gave the following reasons: found better pay in another job (N = 2), in a temporary job (N = 1), and other (N = 1).

Full-time wages for community college Integrated Construction Trades graduates were \$14.15 per hour or \$566 a week or approximately \$29,432 a year – assuming continuous employment. Median weekly earnings of carpenters, excluding the self-employed, were \$476 in 1996. The middle 50 percent earned between \$345 and \$660 per week. Wages earned by community college graduates were competitive.

Job satisfaction was high among the Integrated Construction Trades graduates working in the field (\underline{M} =4.27). Integrated Construction Trades graduate satisfaction with the programs they completed (\underline{M} = 3.58) and college services (\underline{M} = 3.39) were the lowest in the study. They rated program components and services below average on a consistent basis. Equipment, facilities, and materials were rated very low (\underline{M} = 2.89) as was the ratings for labor market information (\underline{M} = 3.33). Student activities (\underline{M} = 2.57), counseling (\underline{M} = 2.92), tutoring (\underline{M} = 3.00), advising (\underline{M} =3.33), and career planning (\underline{M} = 3.33) were all rated low.

Comparing current Construction Trades (Integrated) results with those from five years ago show similar levels of employment between the groups (88.9 percent for 1998 and 87.5 percent for 1993) and slightly lower levels of full-time employment. No current graduates were unemployed. Recent graduates had a lower percentage of training-related placements and lower involvement in continuing education.



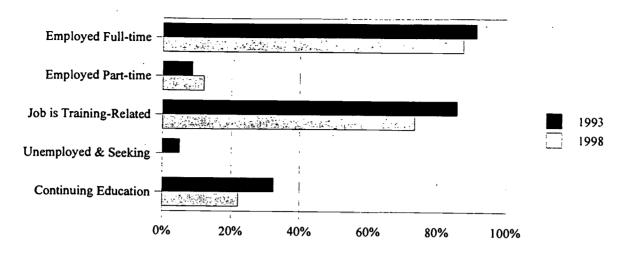


Figure 11. Construction Trades (Integrated): FY 1993 & FY 1998

Stationary Energy Sources Installer and Operator. Programs prepares individuals to apply technical knowledge and skills to install, repair, operate, and maintain large power sources for such purposes as generating electricity, pumping, and heating. Graduates may work in a variety of positions, including commercial and industrial electronic equipment repairers and electric power generating plant operators, distributors, and dispatchers.

Triton College and Belleville Area College were the only colleges with Stationary Energy Sources Installer and Operator graduates. Ten graduates returned usable surveys for a response rate of 90.9 percent.

Overall employment of commercial and industrial electronic equipment repairers is expected to increase about as fast as the average the average for all occupations through the year 2006. Employment in nongovernment industries is expected to grow faster than the average for all occupations. Little increase in employment of electric power generating plant operators, distributors, and dispatchers is expected through the year 2006 as the industry restructures in response to deregulation and increasing competition. Occupational Outlook Handbook, 1998-99

All the Stationary Energy Sources Installer and Operator graduates were employed in related positions. One was both working and taking classes in a related program. Nine out of ten were full-time workers. All were employed in Illinois with one-half working in the district where they were trained. Stationary Energy Sources Installer and Operator graduates were satisfied with their positions ($\underline{M} = 4.30$).

Illinois community college Stationary Energy Sources Installer and Operator graduates earned \$19.96 an hour or \$798 per week or approximately \$41,517 a year. Earnings vary widely by occupation and the type of equipment repaired or operated. According to a survey of workplaces in 160 metropolitan areas, beginning maintenance electronics technicians had median earnings of \$11.50 an hour in 1995, with the middle half earning between \$10.50 and \$13.25 an hour. Median weekly earnings for communications and industrial equipment Electronic Repairers were \$602/week. According to the limited information available, median weekly earnings for conventional power



plant operators were about \$869 in 1996. According to information from union surveys, wages for fossil fuel power plant operators ranged from \$498 to \$1,100 weekly, averaging \$837 in 1995 (Occupational Outlook Handbook, 1998-99). Stationary Energy Sources Installer and Operator graduates from community colleges are earning substantial wages.

Stationary Energy Sources Installer and Operator graduates were generally satisfied with the programs they completed ($\underline{M} = 4.15$), but indicated a desire for better labor market information ($\underline{M} = 3.22$). Their levels of satisfaction was higher for college services ($\underline{M} = 4.41$). Stationary Energy Sources Installer and Operator graduates awarded perfect ratings to half of the college services ($\underline{M} = 5.00$ out of 5.00): financial aid, advising, career planning, and tutoring.

Conclusions and Policy Implications

The Illinois economy has been thriving both at the time of the current study and as this report is being produced. Illinois has been at a level of worker employment at "historically unprecedented levels" with "unemployment rates in Illinois below the national average for 44 out of the past 48 months" (Putnam, September 22, 1999). During spring 1999 when the survey was conducted unemployment levels in Illinois were at or near their lowest levels in 24 years (http://lmi.ides.state.il.us/summjobs.htm 5/20/99 IDES Press Release). The economic climate in Illinois is very favorable and community colleges are being relied upon to help meet the need for qualified workers. Both community college graduates and others who take selected courses at community colleges are making contributions to meeting these demands.

As a part of a multifaceted systemwide accountability initiative, Illinois community colleges conduct an annual follow-up survey of graduates in designated occupational programs. Graduates furnish valuable information regarding their college and employment experiences. The graduate perspectives offer community colleges a timely data source to assist in the development of program improvement initiatives. The broad field of Nursing accounted for four out of five graduate respondents (80.3 percent) in the current study. Results are based on responses to follow-up surveys that were mailed to graduates in selected programs in spring 1999, approximately six to nine months after graduation. State-level results show:

- ▶ 93.8 percent were employed or pursuing additional education or both. (Table B-1.)
- ▶ 90.0 percent of the occupational completers were employed. (Table B-2.)

Among working graduates,

- ▶ 82.0 percent held full-time status in their current jobs. (Table B-2.)
- ▶ 87.2 percent were employed in positions related to the field in which they studied at the community college. (Table B-5).
- ▶ 82.7 percent obtained their current positions while enrolled or after graduating. (Table B-7:)
- 92.3 percent were employed in Illinois. Of those, seven out of ten remained in the district where they received their training. (Table B-8.)
- The average salary was \$12.62 per hour, nearly two and one-half times the minimum wage (\$5.15 per hour). (Table B-9.)



- Graduates employed in full-time positions earned the equivalent of about \$26,800 annually.
- The average rate of unemployment was 3.3 percent. (Table B-2). The statewide unemployment rate was 4.0 percent in March 1999 (http://lmi.ides.state.il.us/laus99.htm 9/29/99).
- Nearly one-quarter of the respondents were pursuing additional education. Four out of five of those enrolled in further study were taking coursework in a related field (Table B-4).
- Graduates employed in positions related to their community college program were satisfied with their current positions ($\underline{M} = 4.23$ on a five-point scale, with 5 being very satisfied and 0 being very dissatisfied). Including unrelated positions, job satisfaction averaged 4.19/5.00. (Table B-10.)
- Overall, graduates expressed satisfaction ($\underline{M} = 4.26/5.00$) with components of their program (course content, lecture/lab experiences, equipment, facilities and materials, job preparation, preparation for further education, and labor market employment information). (Table B-11.)
- Graduates were also satisfied with college services, such as financial aid, academic advising, career planning, transfer planning, counseling, tutoring, library/audio-visual, student activities) awarding an average rating of 4.20/5.00. (Table B-12.)

Graduates from similar program areas were surveyed five years ago. High demand nursing field graduates were predominant among the programs under study. An overall comparison of follow-up survey results for 1998 and 1993 graduates indicate consistent high performance on two key outcomes:

- Combined levels of employment, enrolling in additional courses, or both were consistently high at nearly 94 percent for both groups of completers.
- ► Employment levels were high at 90 percent for both groups.

Current graduates showed some advances in a half dozen other areas. Results were positive in both 1998 and 1993.

- The statewide 1998 follow-up response rate (57.2 percent) was substantially higher than the 1993 rate (45.8 percent). College efforts to capture a broader cross-section of respondents and increase response rates are recognized.
- Two-thirds of the current graduates were working in the community college district in which they received their training, thereby contributing to the local economy. Results were up nearly 4 percent from 1993.
- In keeping with a growing economy, almost one out of five working graduates obtained their current employment while still enrolled in the program. Opportunities were arising before graduation. The rate was up 3.3 percent from 1993.
- Generally, more recent graduates exhibited slightly higher satisfaction ratings. Both groups awarded high satisfaction ratings. Graduates reported high levels of satisfaction with major program components ($\underline{M} = 4.26$ for 1998 completers and $\underline{M} = 4.10$ for 1993 graduates) and college services ($\underline{M} = 4.20$ for 1998 and $\underline{M} = 4.00$ for 1993 completers). Likewise, workers in both studies reported high levels of satisfaction with their jobs ($\underline{M} = 4.19$ for 1998 and $\underline{M} = 4.08$ for 1993).
- Nearly one-quarter of current survey respondents were pursuing additional education. Up almost 2 percent from 1993.



- In another positive sign which reflects the thriving economy, the percentage of recent graduates who were unemployed and seeking work is lower currently at 3.3 percent versus a 4.1 percent unemployment rate reported five years earlier.
- The average hourly wage of \$12.62 increased \$1.14 from five years ago for all workers. Minimum wage increased \$0.90 per hour over the same period of time.
- Employment in full-time positions showed a small increase at 82.0 percent for 1998 and 80.9 percent for 1993.

A few of the study results warrant further consideration or examination:

Although substantial, the proportion (87.2 percent) of 1998 graduates employed in an area related to their program of preparation was slightly less (1.3 percent) than reported by the 1993 graduates. Several programs reviewed in this statewide study had more than one-quarter of the total employed graduates working in a field that was not related to their program of study. Those programs which also have at least ten graduates in the statewide study should be examined through college program review processes to determine if program improvement initiatives are necessary: Travel Services Marketing Operations, Ornamental Horticulture Operations and Management, Nurse Assistant/Aide, Construction Trades (Integrated), and Therapeutic Recreational Assisting (Table B-5)

Current results indicate that colleges have responded in a positive manner to Illinois Community College Board requests to put further effort and resources into the collection of the annual occupational follow-up data. The current statewide response rate of 57.2 percent shows a substantial improvement over five years ago. Historically, state-level response rates have varied form 40.2 percent to 60.3 percent. The handful of colleges with occupational follow-up study response rates below recommended levels are asked to put forth additional effort to increase response rates for the coming year. Minimum response rates for the Occupational Follow-up Survey have been established. For colleges surveying 30 or more graduates, a 50 percent response rate is required; for those surveying less than 30 graduates, a 60 percent response rate is required.

Occupational Graduate Follow-up Survey results are an integral part of another statewide accountability initiative known as the Performance-Based Incentive System (PBIS). Capturing a broader cross-section of respondents through the Occupational Follow-up Survey provides a more balanced picture of graduate outcomes for the current study and tracking PBIS outcomes. Student satisfaction and student success in employment/continued pursuit of education from the follow-up study are two of the five statewide PBIS measures. Occupational follow-up study data provide the percentage of students who are somewhat or very satisfied with courses in the student's major program of study, courses outside the students major program of study, and student support programs and services in a combined "overall student satisfaction" goal. In addition, the percentage of occupational completers reporting in the follow-up study that they are employed or continuing their education provide data for the "student success in employment/continued pursuit of education" goal. Points are deducted from a district's PBIS score if minimum standards are not met.

Overall results indicate that 18.0 percent of workers were in part-time positions. Six programs with more than ten graduates statewide exceeded this percentage: Ornamental Horticulture Operations and Management; Medical Laboratory Aide/Phlebotomy; Travel Services Marketing Operations; Nurse Aid/Assistant; Horticulture Services Operations and Management; and Licensed Practical



Nurse (Table B-2). Colleges with these programs should monitor local labor market needs to determine the availability of full-time employment in the field.

Overall, average graduate earnings were substantial at \$12.62/hour which is approximately 2.5 times minimum wage. Minimum wage is currently \$5.15 per hour. Earnings data by degree type show average earnings levels rose with higher levels of training. Wages for Associate Degree graduates averaged \$14.22 per hour or 2.76 times minimum wage. Average wages for graduates who earned certificates of over a year averaged \$11.65 or 2.26 times minimum wage. Average wages for completers of certificate programs of less than a year averaged \$9.24 or 1.79 times minimum wage. Completers from two small programs had graduates earning entry salaries that were less than one and one-half times minimum wage (\$7.73/hour): Agricultural Animal Husbandry and Production Management at \$7.50/hour or \$300/week (1.46 times minimum wage) and Equestrian/Equine Studies/Horse Management at \$7.40/hour (1.44 times minimum wage). Colleges with programs leading to occupations with relatively low initial earnings should make students aware of the compensation available in these fields both short and long term. While Equine Studies graduates working in the field ($\underline{M} = 4.40$) reported a high degree of satisfaction with their jobs, Animal Husbandry graduates in related positions were less satisfied ($\underline{M} = 3.75$) with their jobs.

Two of the major industries where community college graduates who participated in the study were employed are both in periods of transition. Across all nursing fields, college officials will need to remain particularly vigilant in monitoring the changing healthcare delivery system and adapting those program components they can to prepare graduates for employment where opportunities are expected to be best. Perhaps the largest impact will be felt in Registered Nursing (RN) programs. Jobs are moving away from hospitals and into other settings such as outpatient centers, home healthcare, and ambulatory care clinics. The core RN curriculum is quite extensive and built around standards in the field. Yet, as emerging high-level nursing opportunities are requiring more entrepreneurial skills, there is a need to provide nurses with at least some training in this area. Nursing graduates planning to work in hospital settings should automatically plan on seeking additional specialized training. The wave of changes sweeping through the healthcare industry have implications for additional nontechnical training; diversifying clinical site selection; and reiterating the need to strengthen advising, career planning, and counseling. Although still in the satisfied range, RN graduates rated advising, career planning, and counseling slightly lower than other nursing graduates.

Agriculture is an important industry in Illinois with rural areas benefitting most from production and urban areas heavily involved in food processing and agricultural manufacturing. According to *Horizons* (2000), fewer than 10 percent of agricultural graduates enter production work with most working in no-farm jobs that are closely related to agriculture. Events on the farm have a ripple effect across agriculture-related industry. In tough economic times, spending is curtailed. Recent events involving two years of record federal farm bailout legislation serve as a reminder of the potentially turbulent nature of the agriculture industry. Prices are not expected to recover until next autumn, if then. Recent events are expected to prompt a review of federal farm policy (http://biz.yahoo.com/rf/991022/y5.html "Clinton Signs U.S. Farm Bailout," Charles Abbott, October 22, 1999, Reuters Limited, London, UK).

Community colleges have been active partners in workforce preparation for a long time. Their strong ties to the local community — area residents and employers — and their expanding roles in



economic development are attracting renewed interest by many. The accelerated need for highly educated, high skills workers has brought additional attention to the expanding role community colleges can play in preparing individuals for employment in the emerging economy.

What we need is a new Skill Development Option, developed in institutions that do not separate "training" and "education" as sharply as colleges (and universities) do, that are not rigidly tied to the four-year post-high-school residential model - and that employers view as imparting skills needed for workplace performance at levels as high or higher than four-year colleges.

Fortunately, we have in place an institution ideally situated to manage the majority of the necessary tasks: the nation's two-year community colleges. With the right kind of support, they can greatly improve the life chances of a majority of our youth (and adults). Community colleges have a track record of success in helping people develop needed skills. They are local institutions with close ties to city, county, regional, and state governments and institutions - and with local employers who can assist in training and job placement.

Daniel Yankelovich, "High Skills Option: A Different Kind of Success,"

Blueprint: Ideas for a New Century, Fall 1999,

http://www.dlc.org/blueprint/fall/99/solutions12.html



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APPENDIX A

Occupational Follow-up Study Overview Tables for Selected Occupational Programs



Table A-1

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE FOR SELECTED PROGRAMS

Dist. No. District/College	Number Programs Surveyed*	Number Surveyed*	Number Responding	Percent Responding	Percent Employed o	r Percent Employed	Percent Continuing Education	Satisfaction with Program**
522 Belleville	8	123	76	61.8	93.4	90.8	10.5	4.3
503 Black Hawk	15	119	61	51.3	91.8	88.5	31.1	4.2
508 Chicago	(20)	(591)	(198)	(33.5)	(89.7)	(87.8)	(14.0)	(4.2)
06 Daley	3	61	31	50.8	83.3	83.9	13.3	4.2
01 Kennedy-King	4	373	86	23.1	87.3	88.2	11.3	4.1
03 Malcolm X	1	13	. 4	30.8	100.0	100.0	0.0	4.0
05 Olive-Harvey	2	39	20	51.3	100.0	100.0	10.5	4.1
04 Truman	1	68	36	52.9	94.1	88.9	17.6	4.3
02 Washington	4	10	3	30.0	66.7	66.7	0.0	4.5
07 Wright	5	27	18	66.7	94.1	77.8	29.4	4.2
507 Danville	6	46	25	54.3	86.4	86.4	24.0	4.0
502 DuPage	17	247	133	53.8	94.0	87.2	33.8	4.5
509 Elgin	5	160	111	69.4	95.5	94.6	11.7	4.2
512 Harper	11	159	123	77.4	95.7	95.1	21.2	4.4
540 Heartland	1	25	15	60.0	93.3	93.3	13.3	4.4
519 Highland	2	29	20	69.0	95.0	95.0	10.0	3.9
514 Illinois Central	9	64	42	65.6	95.2	95.2	23.8	4.4
529 Illinois Eastern	(11)	(244)	(125)	(51.2)	(87.8)	(82.1)	(19.4)	(4.0)
04 Frontier	1	41	14	34.1	78.6	78.6	14.3	4.1
01 Lincoln Trail	3	27	18	66.7	94.4	77.8	38.9	4.6
02 Olney Central	3	147	75	51.0	86.7	85.3	12.0	3.7
03 Wabash Valley	4	29	18	62.1	93.8	75.0	38.9	4.3
513 Illinois Valley	4	154	89	57.8	96.6	89.9	46.1	4.3
525 Joliet	16	156	117	75.0	98.3	98.3	6.0	4.2
520 Kankakee	2	83	49	59.0	100.0	100.0	20.4	4.2
501 Kaskaskia	7	95	72	75.8	92.9	91.4	25.7	4.2
523 Kishwaukee	12	113	87	77.0	97.7	96.6	18.4	4.3
532 Lake County	9	184	108	58.7	92.6	86.1	25.0	4.4
517 Lake Land	11	98	67	68.4	98.5	82.1	20.9	4.4
536 Lewis & Clark	4 ·	200	120	60.0	87.0	75.8	65.2	4.4
526 Lincoln Land	3	96	60	62.5	100.0	98.3	18.6	4.2
530 Logan	4	119	60	50.4	100.0	83.3	53.3	4.5
528 McHenry	6	127	82	64.6	90.2	86.6	36.6	4.5
524 Moraine Valley	6	129	73	56.6	94.2	93.2	15.9	4.6
527 Morton	3	50	28	56.0	85.7	82.1	25.0	4.2
535 Oakton	5	119	60	50.4	91.7	90.0	15.0	4.2
505 Parkland	8	120	91 ·	75.8	90.0	85.7	11.1	3.9
515 Prairie State	1	56	43	76.8	88.4	88.4	7.0	3.9
521 Rend Lake	7	82	54	65.9	98.1	90.7	25.9	4.3
537 Richland	2	40	29	72.5	96.4	96.4	10.7	4.0
511 Rock Valley	7	227	102	44.9	91.6	89.1	17.7	4.7
518 Sandburg	5	63	35	55.6	100.0	91.4	34.3	4.2
506 Sauk Valley	5	82	58	70.7	93.1	82.8	24.1	4.3
531 Shawnee	4	49	23	46.9	91.3	87.0	30.4	4.2
510 South Suburban	8	104	61	58.7	98.4	98.4	26.2	4.1
533 Southeastern	9	130	94	72.3	94.7	89.4	29.8	4.3
534 Spoon River	3	54	29	53.7	100.0	100.0	13.8	3.7
504 Triton	15	224	114	50.9	96.5	96.5	21.9	4.1
516 Waubonsee	3	154	83	53.9	91.5	89.2	17.1	4.2
539 Wood	7	139	72	51.8	97.1	94.4	24.3	4.3
TOTALS	281	5,054	2,889	57.2	93.8	90.0	23.6	4.3

SOURCE OF DATA: Fiscal Year 1999 Occupational Follow-up Study Data



^{*}Selected programs reviewed in report only, excludes correctional students.

** Based on a scale of 1-5; 1 - Very Dissatisfied, 5 - Very Satisfied.

Table A-2
OCCUPATIONAL FOLLOW-UP RESPONSE RATES BY PROGRAM

CIP	Title	Respondents	Non- respondents	Number of Completers Surveyed*	Response Rate
010101	AGRICULTURAL BUSINESS AND MANAGEMENT	78	20	98	79.6
0103	AGRICULTURAL PRODUCTION WORKERS & MANAGERS	54	48	102	52.9
010301	Agricultural ProductionWorkers & Mgrs. General	43	33	76	56.6
010302	Agricultural Animal Husbandry & Production Mgmt	11	15	26	42.3
010507	EQUESTRIAN/EQUINE STUDIES, HORSE MANAGEMENT	8	4	12	66.7
0106	HORTICULTURE SERVICES OPERATIONS & MGMT	130	38	168	77.4
010601	Horticulture Services Operations & Mgmt, General	52	22	74	70.3
010602	Arboriculture	7	2	9	77.8
010603	Ornamental Horticulture Operations & Mgmt	27	4	31	87.1
010604	Greenhouse Operations & Mgmt	7	1	8	87.5
010605	Landscaping Operations & Mgmt	27	9	36	75.0
010607	Turf Management	10	0	10	100.0
030601	WILDLIFE AND WILDLANDS MANAGEMENT	8	6	14	57.1
0807	GENERAL RETAILING & WHOLESALING OPERATIONS	127	89	216	58.8
080705	General Retailing Operations	11	15	. 26	42.3
080706	General Selling Skills and Sales Operations	82	55	137	59.9
080709	General Distribution Operations	34	19	53	64.2
081105	TRAVEL SERVICES MARKETING OPERATIONS	87	85	172	50.6
150507	ENVIRONMENTAL & POLLUTION TECHNOLOGY	9	8	17	52.9
310505	EXERCISE SCIENCES/PHYSIOLOGY & MOVEMENT STUDIES	9	1	10	90.0
461000	CONSTRUCTION TRADES (INTEGRATED)	18	25	43	41.9
470501	STATIONARY ENERGY SOURCES INSTALLER & OPERATOR	10	1	11	90.9
5116	NURSING	2,321	1.811	4,132	56.2
511601	Nursing (R.N. Training)	1,293	676	1,969	65.7
511613	Practical Nurse (L.P.N. Training)	487	438	925	52.6
511614	Nurse Assistant/Aide	541	697	1,238	43.7
5126	MISCELLANEOUS HEALTH AIDES	30	20	60	50 5
	Medical Laboratory Aide/Phlebotomy		29	59	50.8
512604	Therapeutic Recreational Assisting	20 10	26	46	43.5
		10	3	13	76.9
	Total Statewide Report	2,889	2,165	5,054	57.2
	Total Surveyed	2,918	2,201	5,119	57.0
		•	,	- ,	37.0

^{*}Correctional & deceased students are not included in these totals

SOURCE OF DATA: Fiscal Year 1999 Occupational Follow-Up Study



APPENDIX B

Statewide Occupational Follow-up Study Tables for Selected Occupational Programs by Classification of Instructional Program Code



TOTAL NUMBER RESPONDING

BEST COPY AVAILABLE

Illinois Community College Board

I AND EDUCATION STATUS OF PROGRAM COMPLETERS	ONAL PROGRAMS
ID EDUCATION STATE	IN SELECTED OCCUPATIONA
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			CCCOTA LONAL PROGRAMS	n		
	EMPLOYED AND NOT PURSUING ADDITIONAL	D NOT TIONAL	PURSUING ADDITIONAL EDUCATION AND	EMPLOYED AND PURSUING ADDITIONAL	EMPLOYED OR PURSUING ADDITIONAL EDUCATION	UING
CIP PROGRAM .	NUMBER PE	PERCENT	NOT EMPLOYED NUMBER PERCENT	NUMBER PERCENT	OR BOTH NUMBER PERCENT	SENI
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	44	287	12 16.0	19 253	75	97.6
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS 010301 Agricultural Production Workers & Managers, General	41	78.8	4 7.7	7 13.5	52	8 5
∞5	o	0.06	0.0		10	, o 8
010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	g	75.0	1 12.5	1 12.5	80	8
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	81	72.3	8	23 20:5	112	88.2
010601 Horticulture Services Operations & Management, Gen 010602 Arbaiculture	25	62.5	10.0	11 27.5	. 40	900
010603 Ornamental Horticulture Operations & Management	ဂဋ	66.7	000	2 286	7	8 8
010604 Greenhouse Operations & Management	4	299	1 16.7			85.7 88.7
010605 Landscaping Operations & Management 010607 Turf Management	21	94.0	0.4	3 42.0	25	92.6
030601 WILDLIFE AND WILDLANDS MANAGEMENT	· ·	Z Z) (c			3 (
CONTRACTOR OF THE PROPERTY OF) 	<u>,</u>))			? S
0807 GEN RETAILING & WHOLESALING OPERATIONS 080705 General Retailing Operations		66.4 4.0	ზ 0 44 C	36 29.5	122	88 4 0
080706 General Selling Skills and Sales Operations	88	72.5) 4) 0	18 22:8		3 6
080709 General Distribution Operations	15	45.5	- C			8
081105 TRAVEL SERVICES MARKETING OPERATIONS	. 54	88 4	7 89	18 22.8	92	8
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	Ø	75.0	1 12.5	1 12.5	6	8
310505 EXERCISE SCI/PHYSIOLOGY & MOVEMENT STUDIES	ಹ	9 8 8	00	-	6	90
461000 CONSTRUCTION TRADES (INTEGRATED)	12	75.0	0:0	4 250	16	6.88 6.89
470501 STATIONARY ENERGY SOURCES INSTALL/OPERATOR	6	0 8	00	1 10:0	10	8
5116 NURSING	1627	76.2	72 3.4	435 20.4	2134	53.7
511601 Nursing (R.N. Training) 511613 Practical Nurse (I P.N. Training)	1018	93.6	18			926
511614 Nurse Assistant/Aide	307	65.0	30 6.4	135 28.6	445	88.9 1.0
5126 MISCELLANEOUS HEALTH AIDES	23	82.1	0	0 2 3	ac c	5
512602 Medical Laboratory Aide/Phlebotomy	11	89.5		2 10.5		0.00
512604 Inerapeutic Recreational Assisting	9	66.7	0	e 33.3	6	100 0
Associate Degree	1253	803	47			95.4
	408	099	37 6.1	127 26.0	489	2 8
REPORT TOTAL						3
	68	L C /	011	553 :20.8	2660	93.8



7-9 alge

EMPLOYMENT PATTERNS OF PROGRAM COMPLETERS IN SELECTED OCCUPATIONAL PROGRAMS

UNEMPLOYED NOT SEEKING TOTAL	ENI OUMBER PERCENT NUMBER NUMBER PERCENT	0.00 14 18.2 77 63 81.8	0.0 6 11.1 54 48 88.9	5 11:6 43 38	0.0 1 9.1 10 90.9	0.0 1 12.5 8 7 87.5		21 16.4 128 105	51 37		0.0 4 13.4 26 22 84.6 0.0 2 98.8 7 5 2 36.4	3 1111 27 24	00 01	(2.5 0 0.0 8 7 87.5)	2.4 4 3.2 126 119 94.4	0.0 10 10 10	3 3.7 82 76	0.0 1 2.8 34 33 87:1	4.6 11 12.6 87 72 82.8	222 0 0.00 9 7 77.8	0001 6 6 00 0 00	0.00 2 74.31 18 16 188.9	0.00 0 0.00 0.00 0.00	3.6 133 5.8 2308 2091 90.6	41 3.2 1290 1214	7:3 478 426	5.9 57 10.6 540 451 83.5	0	0 0 20 20	0.00 0 10 0.00	85 5.1 1658 1532	8 38 7.2 525	
UNEMPLOYED SEEKING BART TIME CHARLOYED	NUMBER PERCENT NUMBER PERCENT	6 9 5 C	5 10.4 0	13.2	0 00 0	1 143 0			0 243 2	7 92	* 00 P	12.5	0 00 0	0 0.0	6 50 3	0 00	9.	0	21 29.2 4	0	3 333 0	2 12.5 0	1 100 0	389 18.6		19.0	124 27.5 32	30.0	0 30.0	900		91 19.4 19	
EMPLOYED	Z	57 90.5			10 100,0	6 85.7	6		7,67 62	42.6		21 87.5	10001	7 (00.0	113 96.0	10.001		33 100.0	51 708	7 106.0	98.7	14 87.5	0 6	1702 81.4	1030 84.8		97.			0.07		377 80.6	
	CIP PROGRAM	010101 AGRICULTURAL BUSINESS AND MANAGEMENT	0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	010301 Agricultural Production Workers & Managers, General	010302 Agricultural Animal Husbandry & Production Mgmt	010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	0106 HORTICIH TIBE SERVICES OBERATIONS & MGMT		010602 Arboriculture		010604 Greenhouse Operations & Management	010605 Landscaping Operations & Management	010607 Turl Management	030601 WILDLIFE AND WILDLANDS MANAGEMENT	0807 GEN RETAILING & WHOLESALING OPERATIONS	080705 General Retailing Operations	080706 General Selling Skills and Sales Operations	USU/US General Distribution Operations	081105 TRAVEL SERVICES MARKETING OPERATIONS	150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES	461000 CONSTRUCTION TRADES (INTEGRATED)	470501 STATIONARY ENERGY SOURCES INSTALLOPERATOR	5116 NURSING	511601 Nursing (R.N. Training)	511613 Practical Nurse (L.P.N. Training)	O TO 14 Nuise Assistant/Alde	5126 MISCELLANEOUS HEALTH AIDES	512602 Medical Laboratory Aide/Philebotomy	512604 Therapeutic Recreational Assisting	Associate Degree	Advanced Certificate (30 hours or more)	

SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

465

54

2835

REPORT TOTAL

Illinois Community Coilege Board

Table B-3

GRADUATES SIMU	LTANEOUSLY EMPLOYED AND PURSUING ADD IN SELECTED OCCUPATIONAL PROGRAMS	GRADUATES SIMULTANEOUSLY EMPLOYED AND PURSUING ADDITIONAL EDUCATION IN SELECTED OCCUPATIONAL PROGRAMS	NO	
	EMPLOYED AND PURSUIN ADDITIONAL EDUCATION I A RELATED FIELD	EMPLOYED AND PURSUING ADDITIONAL EDUCATION IN AN LINREI ATED FIELD	TOTAL GRADUATES EMPLOYED AND PURSUING ADDITIONAL EDITIONAL	TOTAL GRADUATES
CIP PROGRAM	NUMBER PERCENT	NUMBER PERCENT	NUMBER PERCENT	NUMBER
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	17 89.5	2 10.5	19 24.7	11
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	7 100.0	00 0	7 13.0	54
010301 Agricultural Production Workers & Managers, General	0.00.0	0.0	6 14.0	43
o tosoz Agriculular Animal Husbandry & Production Mgmt	1000	0 0	.	=
010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	1 100.0	0.0	-	80
0106 HORTICULTURE SERVICES OPERATIONS & MGMT		7 30,4	23 18.1	127
010601 Horticulture Services Operations & Management, Gen 010602 Arboniculture	0	182		90
010603 Ornamental Horticulture Operations & Management	- 4	2 333	9 23 1	<i>-</i> 26
010604 Greenhouse Operations & Management	00 0	100.0		
010605 Landscaping Operations & Management 010607 Turf Management	2 66.7	28.3		27
030601 WILDLIFE AND WILDLANDS MANAGEMENT	2 400.0			2 (
	3		7 25.0	œ
0807 GEN RETAILING & WHOLESALING OPERATIONS 080705 General Retailing Operations	29 80.6	7 60.	36 29.0	124
080706 General Selling Skills and Sales Operations	- 17 - 40 - 40	1 0 0	18	o 6
080709 General Distribution Operations	. 11 64.7	6 35.3		38
081105 TRAVEL SERVICES MARKETING OPERATIONS	11 61.1	6.86	18 20.7	87
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	100.0	0.0	1 12.5	æ
310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUD!	100.0	0.0	-	.
461000 CONSTRUCTION TRADES (INTEGRATED)	4 100.0	00	4 22.2	81
470501 STATIONARY ENERGY SOURCES INSTALL'OPERA	1 100.0	0 0.0	10.0	5
5116 NURSING	370 85.1	65	435 19.1	1227
511601 Nursing (R.N. Training) 511613 Practical Nurse (L.P.N. Trainino)	167 92.3	14		1273
511614 Nurse Assistant/Aide		44 32:6	135 25.4	473 531
5126 MISCELLANEOUS HEALTH AIDES	5 100.0	0		38
512602 Medicat Laboratory Aide/Philebotomy				19
512604 Inerapeutic Recreational Assisting	100.0	0.0	3.33	თ
Associate Degree			:::.·	1637
Basic Certificate (Less than 30 hours)	119 93.7	53	127 24.4	520
			100	۵/۵



Table B-4

EDUCATIONAL STATUS OF GRADUATES FROM SELECTED OCCUPATIONAL PROGRAMS

		PREVIOUSLY PURSUED FURTHER	CURRENTLY	CURRENTLY		COMBINED COUNT	COUNT
	NO FURTHER EDUCATION	::	ENROLLED IN RELATED PROGRAM	ENROLLED IN UNRELATED PROGRAM	TOTAL RESPONDING	IN RELATED AND UNRELATED PROGRAMS	AND
CIP	NUMBER PERCENT	NUMBER PERCENT	NUMBER PERCENT	NUMBER PERCENT	NUMBER	NUMBER	PERCENT
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	43 65.1	4	29 37.2	2 20	78	£	39.7
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	40 74.1	3 5.6	11 20.4	0	. 3	=	8
010301 Agricultural Production Workers & Managers, General		3	10 23.3	0.0	43	•	23.3
01030Z Agricutural Animal Husbandry & Production Mgmt	10 90.9	00 0	-	0.0	=	-	ő
010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	5 62.8	12.6	1 12.8	1 125	60	7	250
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	94 729	2 1.6	23 17.8	10	128	ç	94
010601 Horticulture Services Operations & Management, Gen	35 686	0.0		4 7.8	5.5	3 3	3.6
010602 Arboriculture	5	0	1 14.3	1		. ~	58 6
010603 Ornamental Horticutture Operations & Management		2 74	6 222	9	27	o	8
010605 Landscaping Operations & Management	5. C. C.	0 6		14.3	7	2	28.6
010607 Turf Management				- 0	72	7	14.8
		2		00	9	0	8
030601 WILDLIFE AND WILDLANDS MANAGEMENT	6 750	0.0	2 280	00	œ	2	0 %
0807 GEN RETAILING & WHOLESALING OPERATIONS		11 8.8	32 28 6	9 72	125	4	32.8
080705 General Retailing Operations	800	100	100	0 0	.0	-	10.0
080706 General Selling Skills and Sates Operations 080709 General Distribution Operations	51 622	9 ,	20 24.4	2 24	82	22	26.8
Correct Cracination (Contains)		0.6	= 8	7 21.2	33	\$	χ 9
081105 TRAVEL SERVICES MARKETING OPERATIONS	61 70.1	-	14 16.1	11 12.6	87	83	28.7
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	5 62.5	1 125	2 280	0	6 0	7	25.0
310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES	7 77.8	<u> </u>	-	00	.	-	Ę
461000 CONSTRUCTION TRADES (INTEGRATED)	11 611	3 16.7	4 222	00	18	₹	22
470501 STATIONARY ENERGY SOURCES INSTALL/OPERATO	6	0	-	0	Ş	•	
5116 NURSING	1673	8	65		2 5	- !	2
511601 Nursing (R.N. Training)		ŕM		0 01	1977	50 66 66	572
511613 Practical Nurse (L.P.N. Training)	310 64.3				482		. E
511614 Nurse Assistant/Aide	332 62.4	35	117 220	48	532	165	31.0
5126 MISCELLANEOUS HEALTH AIDES	22 78.6	3.6	5 17.9	0.0	28	. v	17.9
512602 Medical Laboratory Aide/Phiebotomy			2 10.5	0.0	19	7	10.5
512604 Inerapeute Recreational Assisting	6 67	0	e X	00	თ		23.3
Associate Degree	1269 77.4	62 3.8	271 16.5	38 23	1640	308	80
Advanced Certificate (30 hours or more)				11 2.1	259	161	30.4
beasic Cerunicate (Less than 30 hours)	438 64.4	39	143 21.0	88	089	203	59.9
REPORT TOTAL	2049 71.9	127 4.5	564 19.8	109 3.8	2849	673	23 6



SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

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RELATEDNESS OF EMPLOYMENT AMONG PROGRAM COMPLETERS IN SELECTED OCCUPATIONAL PROGRAMS

	EMPLOYE	EMPLOYED FULL-TIME	EMPLOYED PART-TIME	IME		Č	Ę		
	DELATED	PEI ATEN		ļ		COMBINED	ED		i
CIP PROGRAM	NUMBER	NUMBER		Í	NUMBER	CENT	NUMBER PERC	PERCENT	TOTAL RESPONDING
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	48	80	ю	2	5	83 8	10	16.4	61
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	88	v:	۳		**************************************	ŝ	u	Ç	ţ
010301 Agricultural Production Workers & Managers, General	8	, m) m		7 8	¥ 6	0 4	0 q	,
010302 Agricultural Animal Husbandry & Production Mgmt	80	7	0	. 0	} ~	1 D 2 S	2	200	ş
· 010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	4	2	-	0	၄	7.	2	28.6	7
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	99	11	11	S	8	79.0	22	2.5	ā
010601 Horticulture Services Operations & Management, Gen	24	4	7	2	. 5	88	9	16.2	3.
	٠.	2	0	0	S	7.4	7	286	, ~
	8	9	ĸ	9	13	8	o	6 0	. 22
	e	0	2	0	သ	900	0	c	ļvo
	16	S	ന	0	19	79.2	တ	50 B	24
010607 Turf Management	9	0	0	0	2	8	0	0.0	0
030601 WILDLIFE AND WILDLANDS MANAGEMENT	9	-	0	0	9	8	_	4.3	7
0807 GEN RETAILING & WHOLESALING OPERATIONS	8	20	vo	-	ક	4	č	ę	944
080705 General Retailing Operations	7	,	,	- c	3 ^	n c	.,	- (<u>0</u> '
080706 General Selling Skills and Sales Operations	. 55	1 4	o w	· •	- 6	0 2	7 9	777	ה י
080709 General Distribution Operations	31	-	0	. 0		8	2 -) + (c 6
081105 TRAVEL SERVICES MARKETING OPERATIONS	26	52	ю	. ഇ	æ	47.2	88	22.8	2 22
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	7	ĸ	0	0	7	286	ď	71.4	. ~
310505 EXERCISE SCIPPHYSIOLOGY & MOVEMENT STUDIES	9	0	ო	0	o	900	0	00	თ
461000 CONSTRUCTION TRADES (INTEGRATED)	o	4	2	0	7	23.3	٦	7967	â
470501 STATIONABY ENEBGY SOLIDOSE INSTALL POSEDATO	Ċ	ć		, ,			r		2
TIGGE STATEMENT ENERGY SOCRCES INSTALLOPERATO	ח	· •	-	0	2	8	0	0	6
STIP NURSING	1556	134	306	79	1862	88	213	10.3	2075
	986	36	168	16	1157	8.7	25	4.3	1209
511613 Practical Nurse (L.P.N. Training)	316	25	53	4	38	200	93	83	420
511614 Nurse Assistant/Aide	251	73	73 4	49	324	72.6	122	27.4	446
5126 MISCELLANEOUS HEALTH AIDES	15	9	80	-	23	76.7	7	23.3	8
512602 Medical Laboratory Aide/Phlebotomy	=	e	S	_	16	800	4	20.0	20
512604 Therapeutic Recreational Assisting	4	e	e	0	7	70.0	m	30.0	5
Associate Degree	1211	8	196	25	1407	8	115	9.2	1522
Advanced Certificate (30 hours or more)	345	26	70	19	415	8.08	47	10.2	462
Basic Certificate (Less than 30 hours)	319	109	91 5	88	410	71.1	167	28.9	277
REPORT TOTAL	1875	227	357 102	2	2232	87.2	329	12.8	2561



SOURCE OF DATA; ICCB Occupational Follow-up Study - Fiscal Year 1999

REASONS WHY PRESENT JOB IS NOT IN RELATED FIELD FOR GRADUATES OF SELECTED OCCUPATIONAL PROGRAMS

0100101 AGRICULTURAL BUSINESS AND MANAGEMENT 2 3 1 0 1 2 0100 AGRICULTURAL PRODUCTION WORKERS & MARS 0 0 0 0 1 0 0 0100 AGRICULTURAL PRODUCTION WORKERS & MARS 0 0 0 0 0 1 0 0 0100 AGRICULTURAL PRODUCTION WORKERS & MAGMT 0 0 0 0 0 0 0 0 0 0100 AGRICULTURAL PRODUCTION WORKERS & MAGMT 0 0 0 0 0 0 0 0 0100 HORTICULTURE SERVICES OPERATIONS & MAGMT 0 0 0 0 0 0 0 0100 HORTICULTURE SERVICES OPERATIONS & MARSON CONSTRUCTURE SERVICES OPERATIONS & MARSON CONSTRUCTURE SERVICES OPERATIONS & MARSON CONSTRUCTURE A MARSON CONSTRUCTURE MARKETING OPERATIONS 0 0 0 0 0 0 0807 General Stabiling Operations & MARSON CONSTRUCTURE MARKETING OPERATIONS 0 0 0 0 0 0 0 0 0		5 	10000000000000000000000000000000000000
AGRICULTURAL BUSINESS AND MANAGEMENT AGRICULTURAL PRODUCTION WORKERS & MGRS Agricultural Production Workers & Managers, General Agricultural Production Workers & Managers, General Agricultural Animal Husbandry & Production Mgmt EQUESTRIANEQUINE STUDIES, HORSE MGMT HOR TICUL TURE SERVICES OPERATIONS & MGMT Advoiculture Commendal Horiticulture Operations & Management, Gen Omannerial Horiticulture Operations & Management Aboriculture Commendal Horiticulture Operations & Management Aboriculture Commendal Horiticulture Operations & Management Landscaping Operations & Management Landscaping Operations & Management Turf Management WILDLIFE RAID WILDLANDS MANAGEMENT General Retailing Operations General Retailing Operations General Retailing Operations General Selling Skills and Sales Operations General Retailing Operations General Retailing Operations General Retailing Operations TRAVEL SERVICES MARKETING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES CONSTRUCTION TRADES (INTEGRATED) TRATIONARY ENERGY SOURCES INSTALL/OPERATOR NUTSING Nurshing (R.N. Training) Nurshing (R.N. Training) MISCELLANEOUS HEALTH AIDES Medical Laboratory Alde/Phiebotomy Therapeutic Recreational Assisting Associate Degree	0 000 0 000000 0 0000 0 0 0	- wwo o 4-000wo o 7070 4 % o -	0 000 0 4+0%000 0 +0+0 0 0
AGRICULTURAL PRODUCTION WORKERS & MGRS Agricultural Production Workers & Managers, General Agricultural Production Workers & Managers, General Agricultural Animal Husbandry & Production Mgmt EQUESTRIANEGUINE STUDIES, HORSE MGMT HOR TICUL TURE SERVICES OPERATIONS & MGMT Abdoriculture Services Operations & Management, Gen Omanmental Horitculture Operations & Management Advoriculture Services Operations & Management Advoriculture Services Operations & Management Turt Management WILDLIFE AND WILDLANDS MANAGEMENT GEN RETALLING & WHOLESALING OPERATIONS General Seling Skills and Sales Operations General Retailing Operations TRAVEL SERVICES MARKETING OPERATIONS EXERCISE SCUPHYSIOLOGY & MOVEMENT STUDIES CONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALL/OPERATOR OONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALL/OPERATOR NUTRSING Nurshing (R.N. Training) Nurshing (R.N. Training) MISCELLANEOUS HEALTH AIDES Medical Laboratory Alde/Phiebotomy Therapeutic Recreational Assisting Associate Degree 14 21		wwo o 4-000wo o roro 4 % o -	000 0 4-08000 0 -0-0 0 0
Agricultural Production Workers & Managers, General Agricultural Animal Husbandry & Production Mgmt EQUESTRIANVEQUINE STUDIES, HORSE MGMT HORTICUL TURE SERVICES OPERATIONS & MGMT HORTICUL TURE SERVICES OPERATIONS & MGMT Advoirculture Advoirculture Onnamental Horiculture Operations & Management Greenhouse Operations & Management Commencial Horiculture Operations & Management Commencial Horiculture Operations & Management Usuf Management Usuf Management WILDLIFE AND WILDLANDS MANAGEMENT OGEN RETAILING & WHOLESALING OPERATIONS General Positions & Management Commencial Horiculture Operations General Seiling Skills and Sales Operations General Distribution Operations General Seiling Skills and Sales Operations General Seiling Skills and Sales Operations General Seiling Skills and Sales Operations General Distribution Operations General Seiling Skills and Sales Operations General Seiling Skills and Sales Operations General Seiling Skills and Sales Operations General Distribution Operations General Distribution Operations General Seiling Skills and Sales Operations General SciuPHYSIOLOGY & MOVEMENT STUDIES OCONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALLUOPERATOR NUTSING Murshing RN 1 Training) Murshing RN 1 Training) Murshing RN 1 Training) Murshing RN 1 Training) Murshing RN 2 Training) Murshing RN 2 Training) Murshing RN 2 Training) Murshing RN 3 Training) Murshing RN 3 Training N 3 Training N 4 Training N 4 Training N 5 Training N 6 Trai		wwo o 4-000wo o roro 4 % o t	000 0 4-08000 0 -0-0 0 0
Agricultural Animal Husbandry & Production Mgmt 0 FQUESTRIAN/EQUINE STUDIES, HORSE MGMT 0 HORTICUL TURE SERVICES OPERATIONS & MGMT 2 HORTICUL TURE SERVICES OPERATIONS & MGMT 2 Aboriculture Services Operations & Management 0 Aboriculture Operations & Management 0 Corenhouse Operations & Management 0 Landscaping Operations & Management 0 Luf Management 0 WILDLIFE AND WILDLANDS MANAGEMENT 0 GEN RETAILING & WHOLESALING OPERATIONS 1 General Selling Skills and Sales Operations 1 General Distribution Operations 6 General Distribution Operations 6 General Distribution Operations 6 General Distribution Operations 6 General Distribution Operations 0 TRAVEL SERVICES MARKETING OPERATIONS 6 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES 0 CONSTRUCTION TRADES (INTEGRATED) 0 NURSING N. Training) Murse (L.P.N. Training) 7 Practical Nurse (L.P.N. Training)		20 0 4-000W0 0 V0V0 4 V 0 +	00 0 4-08000 0 -0-0 0 0
EQUESTRIANJEQUINE STUDIES, HORSE MGMT HORTICUL TURE SERVICES OPERATIONS & MGMT HORTICUL TURE SERVICES OPERATIONS & MGMT Abordculture Services Operations & Management Gen Omamental Horticulture Operations & Management Greenhouse Operations & Management Greenhouse Operations & Management Turf Management WILDLIFE AND WILDLANDS MANAGEMENT GEN RETAILING & WHOLESALING OPERATIONS General Retailing Operations General Selling Skills and Sales Operations General Distribution Operations TRAVEL SERVICES MARKETING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS EXERCISE SCUPHYSIOLOGY & MOVEMENT STUDIES CONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALLOPERATOR NURSING Nursing (R.N. Training) Practical Nurse (L.P. N. Training) Practical Nurse (L.P. N. Training) Minso Assistant/Aide MISCELLANEOUS HEALTH AIDES MISCELLANEOUS HEALTH AIDES Medical Laboratory Alder/Phiebotomy Therapeutic Recreational Assisting Associate Degree		0 0 4-00000 0 000 4 0 0 -) O 4-0%000 O -0-0 O O
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HOWITCULTURE SERVICES OPERATIONS & MGMT Aboriculture Services Operations & Management, Gen Aboriculture Services Operations & Management Omamental Horitculture Operations & Management Oreenhouse Operations & Management Landscaping Operations & Management Landscaping Operations & Management Tuf Management Tuf Management Tuf Management WILDLIFE AND WILDLANDS MANAGEMENT GEN RETAILING & WHOLESALING OPERATIONS General Retailing Operations General Retailing Skills and Sales Operations General Selling Skills and Sales Operations General Selling Skills and Sales Operations General Distribution Operations GEN RETAILING & WHOLESALING OPERATIONS GENERAL SERVICES MARKETING OPERATIONS GENERAL SERVICES MANAGEMENT STUDIES CONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALL/OPERATOR NURSING NURSING		4-00000 0 000 4 0 0 -	4-00000 0 -0-0 0 0 0
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General Retailing Operations 0 General Selling Skills and Sales Operations 1 General Distribution Operations 1 General Distribution Operations 6 TRAVEL SERVICES MARKETING OPERATIONS 6 ENVIRONMENTAL AND POLLUTION TECHNOLOGY 1 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES 0 CONSTRUCTION TRADES (INTEGRATED) 0 STATIONARY ENERGY SOURCES INSTALLOPERATOR 0 NURSING 7 Nursing (R.N. Training) 7 Fractical Nurse (L.P.N. Training) 1 MISCELLANEOUS HEALTH AIDES 0 Medical Laboratory Aldac/Phiebotomy 0 Therapeutic Recreational Assisting 0 Associate Degree 14 14 21	-0-0 % 0 0 0 0	, 0 4 6 0 4 C	
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TRAVEL SERVICES MARKETING OPERATIONS 6 5 ENVIRONMENTAL AND POLLUTION TECHNOLOGY 1 2 EXERCISE SCUPHYSIOLOGY & MOVEMENT STUDIES 0 0 CONSTRUCTION TRADES (INTEGRATED) 0 2 STATIONARY ENERGY SOURCES INSTALL/OPERATOR 0 3 Nursing (R.N. Training) 7 5 Practical Nurse (L.P.N. Training) 7 5 Nurse Assistant/Aide 27 23 MISCELLANEOUS HEALTH AIDES 0 1 Medical Laboratory Aidar/Phiebotomy 0 0 Associate Degree 14 21	· · · · · ·	4 0 0 +	• • • ·
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EXERCISE SCUPHYSIOLOGY & MOVEMENT STUDIES CONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALL/OPERATOR NURSING Nursing (R.N. Training) Practical Nurse (L.P.N. Training) Nurse Assistant/Aide MISCELLANEOUS HEALTH AIDES Medical Laboratory Aide/Phiebotomy Therapeutic Recreational Assisting Associate Degree		. 0 -	0 0
EXERCISE SCUPHYSIOLOGY & MOVEMENT STUDIES 0 CONSTRUCTION TRADES (INTEGRATED) 0 STATIONARY ENERGY SOURCES INSTALL/OPERATOR 0 NURSING Nursing (R.N. Training) 7 Practical Nurse Assistant/Aide MISCELLANEOUS HEALTH AIDES 0 Medical Laboratory Aide/Phiebotomy 0 Therapeutic Recreational Assisting 0 Associate Degree 14 2	0 0 0	•	0
CONSTRUCTION TRADES (INTEGRATED) STATIONARY ENERGY SOURCES INSTALL'OPERATOR NURSING Nursing (R.N. Training) Practical Nurse (L.P.N. Training) Nurse Assistant/Aide MISCELLANEOUS HEALTH AIDES Medical Laboratory Aide/Phiebotomy Therapeutic Recreational Assisting Associate Degree	0 0	• -	•
STATIONARY ENERGY SOURCES INSTALL/OPEF NURSING Nursing (R.N. Training) Practical Nurse (L.P.N. Training) Murse Assistant/Aide MISCELLANEOUS HEATH AIDES Medical Laboratory Aide/Phiebotomy Therapeutic Recreational Assisting Associate Degree			•
NURSING Nursing (R.N. Training) Practical Nurse (L.P.N. Training) Nurse Assistant/Aide MISCELLANEOUS HEALTH AIDES Medical Laboratory Aide/Phiabotomy Therapeutic Recreational Assisting Associate Degree	0 0 0	-	>
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Associate Degree		7 70	- 0
2 2		0	-
Advanced Certificate (30 hours or more)	6.	52	co
Basic Certificate (Less than 30 hours) 32 33 6 8 1 22 7	7 3 3	2 ≥	ი ნ
REPORT TOTAL 47 61 16 12 7 53 13	. 17	g	: 2
	:	8	3
r field 7			
S = Didn't complete program or pass licensing test to be eligible to work in field 4 = Worked previously in field, that changed 9 = Health problems prevented me from working in field			
10 = Other			

09

5 0



BEGINNING OF PRESENT POSITION AMONG GRADUATES FROM SELECTED OCCUPATIONAL PROGRAMS

TOTAL NUMBER RESPONDING	46	32	# 우	7	83	32	ر م	i ru	24	ග	7	110	œ	02	32	29	7	G	4	5	1948	1107	406 436	3	99	20		98.	556	2380	
BEGAN POSITION AFTER PROGRAM COMPLETION NUMBER PERCENT	47.8	9 281 6 27.3		71.4	8	25.0	28 20 20 20 20 20 20 20 20 20 20 20 20 20	200			71.4				œ œ	8 24	28.6	299	42.9	10.0	289		74.9			၀ ၀				63.6	
BEGAN AFTER COMF	. 22	ത ശ	. 60	S.	32	w	7		0	n	4 3.	33	e	ଛ '	ဖ	32	2		g		1338	778	\$ \$	3	16	<u>.</u> 6		930	298	1513	
BEGAN POSITION DURING PROGRAM ENROLLMENT NUMBER PERCENT	15 32.6	7 21.9 3 13.6	4 0.03 0.00	2 286	34 36.6	15 46.9	4 5/1 2 12.5		9 37.5		2 28.6	30 27.3			12 37.5	22 32.8	2 28.5	333	28.6	500	322 16.5		25 158			4 400	760			455 19.1	
1 1		- 100 K = 100 K = 100																			<u>ښ</u>	•		,			7		_	4	
HAD POSITION PRIOR TO PROCRAM ENTRANCE NUMBER PERCENT	961	16 50.0 13 59.1	3 30.0	00 0	27 29.0	28	. 14.3 6 37.5		5 20.8	4	0			24 34.3	4 3	13	3 42.9	0	4 28.6	400	288 14.8		8 8		7 23.3	30.00	226 46.4			412 17.3	
HAI PROGI		SRS			MT	en						σ.					3	JOIE		RAT	.,	•					•		•	•	
PROGRAM	010101 AGRICULTURAL BUSINESS AND MANAGEMENT	0103 AGRICULTURAL PRODUCTION WORKERS & MGRS 010301 Agricultural Production Workers & Managers, General	010302 Agricultural Animal Husbandry & Production Mgmt	010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT		1 Horticulture Services Operations & Management, Gen		Greenhouse Ope	5 Landscaping Operations & Management 7 Tinf Management		USUSUI VVILULIFE AND VVILULANDS MANAGEMENI	0807 GEN RETAILING & WHOLESALING OPERATIONS	S General Retailing Operations	080709 General Selling Skills and Sales Operations 080709 General Distribution Operations		081105 TRAVEL SERVICES MARKETING OPERATIONS	150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIE	461000 CONSTRUCTION TRADES (INTEGRATED)	470501 STATIONARY ENERGY SOURCES INSTALL/OPERAT	5116 NURSING	511601 Nursing (R.N. Training)	511614 Nurse Assistant/Aide		5126 MISCELLANEOUS HEALTH AIDES (2502 Medical aboratory Aide/Phlabytomy)		Associate Degree	Advanced Certificate (30 hours or more)	Basic Certificate (Less than 30 hours)	REPORT TOTAL	
Gi	01010	010	01030	01050	010 Ø	010601	010603	010604	010605		09060	080	080/05	08070		08110	15050	31050	461000	47050	5116	51160	51161		5126	51260					



SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

apre 6-8

LOCATION OF EMPLOYMENT HELD BY GRADUATES FROM SELECTED OCCUPATIONAL PROGRAMS

CIP PROGRAM	IN-DISTRICT NUMBER PERCENT	PERCENT	OUT-OF-I BUT IN	OUT-OF-DISTRICT BUT IN ILLINOIS NUMBER PERCENT	OUT-OF-STATE NUMBER PERCENT	210	TOTA NUME
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	8	607	41	255	2	0.544.550 + \$ + 0.0	
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS 010301 Agricultural Production Workers & Managers, General 010302 Agricultural Animal Husbandry & Production Mgmt	22 17 5	57.9 50.7	11 8 E	28.9 28.6 30.0	3	13.2 10.7 20.0	# K ₹
010507 EQUESTRIANEQUINE STUDIES, HORSE MGMT	0	0.0	7	100.0	0	00	, , -
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	48	52.7	8	42.9	4	4	Ċn
010601 Horticulture Services Operations & Management, Gen 010602 Arboriculture	δ ε	58.1 42.9	5 6	38.7		3.2	'n '
010603 Ornamental Horticulture Operations & Management 010604 Greenhouse Operations & Management	6 4	7.99	4 •	26.7		29	Ψ.
010805 Landscaping Operations & Management 010807 Tut Management	, 5 .	3 4 8	- E	2 2	0	0.4 2.0	*
030601 WILDLIFE AND WILDLANDS MANAGEMENT	, 6	286	9 -	8 1	O 4	00 + 75	<i>o,</i> 1-
0807 GEN RETAILING & WHOLESALING OPERATIONS	7.4	v Y	·······	¢			
080705 General Retailing Operations	T 00	727	, e	27.3	0	r 0 0	= =
080706 General Selling Skills and Sales Operations 080709 General Distribution Operations	S 92	71.4 50:0	रु रु	21.4	2	7 8	37 25
081105 TRAVEL SERVICES MARKETING OPERATIONS	ន	74.6	91	22.5	2	8	7.
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	r	71.4	_	14.3	-	14.3	-
310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES	n	833	ĸ	35.6	Ţ	-	65
461000 CONSTRUCTION TRADES (INTEGRATED)	φ	429	y	42.9	2	4 5	. 7
470501 STATIONARY ENERGY SOURCES INSTALL/OPERATO	ĸ	20:0	ĸ	900	0	0	5
5116 NURSING	1343	67.2	5	un Re	156	7.8	2000
511601 Nursing (R.N. Training) 511613 Practical Nurse (L.P.N. Training)	737 250	2 2 3 4	293	25.7 32.6	112	8.6	1142
511614 Nurse Assistant/Aide	326	8	23	16.4	15	4	4
5126 MISCELLANEOUS HEALTH AIDES 512602 Medical Laboratory Aide/Phiebdomy	4	58.6 47.4	φ 4	20.7	ψų	20.7	5 5
512604 Therapeutic Recreational Assisting) CC	80	7	20.0	0 0	00	5 6
Associate Degree	8	83	392	27.4	136	<u>8</u>	1433
Advanced Certificate (30 hours or more) Resir Certificate (1 ose than 30 hours)	277	8:	149	32.7	8 :	B	456
	?		₹	n e	62	Ţ	263
REPORT TOTAL	1617	99	645	28.3	189	7.7	2451

SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

RAGE HOURS VANDA AND VANDA SABARA

TES FROM	
AVERAGE HOURLY SALARY EARNED BY GRADUATES FROM	SELECTED OCCUPATIONAL PROGRAMS
AVER	

		킖	FULL-TIME	PART	PART-TIME	TOTAL	
GIP	PROGRAM	NUMBER OF RESPONDENTS	AVERAGE HOURLY SALARY	NUMBER OF VESPONDENTS	AVERAGE HOURLY SALARY	NUMBER OF RESPONDENTS	AVERAGE HOU
010101	010101 AGRICULTURAL BUSINESS AND MANAGEMENT	37	\$8.93	4	\$6.61	41	58 71
0103	AGRICULTURAL PRODUCTION WORKERS & MGRS	24	\$7.84	7	\$7.70	: %	£7 83
010302		စ္ «	\$8.02	7	\$7.70	18	\$7.98
010507)	20.59	>	:	6 0	\$7.50
		ιn	\$7.40	0	i	S	\$7.40
0106	HORTICULTURE SERVICES OPERATIONS & MGMT	63	\$11.79	G	\$11.57	22	£11 76
010602		77 °	\$10.46	SO C	\$14.17	27	\$11.15
010603		~	\$10.52	>	100	ထင	\$13.05
010604	Greenhouse Operations & Management	8	\$10.38	,	84.50 84.70	.	\$10.30
010607		گ ه	\$13.59	(\$9.61	9	\$13.38
		o	90.11.9	5	i	6 0	\$11.86
030601	WILDLIFE AND WILDLANDS MANAGEMENT	9	\$10.24	0	ı	9	\$10.24
0807		75	\$15.06	œ	613 43	ā	
080705		7	\$9.61	. 0	74.016	۲۵ /	\$14.94
	General Distribution Operations	S :	\$14.19	9	\$13.42	99	\$14.11
		<u>0</u>	\$19.59	0	:	18	\$19.59
081105	081105 TRAVEL SERVICES MARKETING OPERATIONS	43	\$11.86	4	\$8.99	25	\$11.15
150507	ENVIRONMENTAL AND POLLUTION TECHNOLOGY	9	\$15.22	0	ı	G	\$15.22
310505	310505 EXERCISE SCI/PHYSIOLOGY & MOVEMENT STUDIES	8	\$20.50	8	00 313	•	47.75
461000	461000 CONSTRUCTION TRADES (INTEGRATED)	01	\$14.15		00 83	ŗţ	67.714
470501	STATIONARY ENERGY SOURCES INSTALL/OPERATO	80	319 96	ı -	9	<u>v</u> (\$13.28
		1384	\$13.07	327	\$11.50 \$11.55	D 474	918.90
	Nursing (R.N. Training) Practical Nurse (L.D.N. Training)	826	\$15.09	160	\$14.11	986	\$12.78
511814		291 267	\$11.61 \$8.40	55	\$10.68	356	\$11.44
5126		16	89.45	u ««) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	600	15.84 1.01
	Medical Laboratory Aide/Phlebotomy	£	\$9.72	o kn	0.00 80.05 83.05	24	\$9 18 \$0 5
51,2504	i nerapeutic Recreational Assisting	ø	\$9.03	· e	\$7.13	် ထ	\$8.40
	Associate Degree Advanced Certificate (30 hours or more)	1021	\$14.35	187	\$13.52	1208	\$14.22
	Basic Certificate (Less than 30 hours)	343	\$11.89 \$9.53	69 119	\$10.56 \$8.40	384 462	\$11.65 \$9.24
	REPORT TOTAL	1679	\$12.90	375	\$11.35	2054	£12.62
100110							70.714

SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999



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Table B-10

JOB SATISFACTION FOR EMPLOYED GRADUATES
RKING IN POSITIONS RELATED AND UNRELATED TO THEIR COMMUNITY COLLEGE PROGRAMS

	EMPLOYE WORI RELATE	EMPLOYED GRADUATES WORKING IN A RELATED POSITION	EMPLOYED WORKII UNRELATE	EMPLOYED GRADUATES WORKING IN AN UNRELATED POSITION	EMPLOYEI WORKIN AND UNREI	EMPLOYED GRADUATES WORKING IN RELATED AND UNRELATED POSITIONS
	NUMBER	SATISFACTION	NUMBER	SATISFACTION	NUMBER	SATISFACTION
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	43	4.14	σ	4.44	25	4.19
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	8	4.03	9	4.67	6	4,13
010301 Agricultural Production Workers & Managers, General	56	4.12	4	4.50	8	4.17
010302 Agricultural Animal Husbandry & Production Mgmt	60	3.75	2	2.00	5	4.00
010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	ĸ	4.40	2	4.50	7	4.43
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	75	50.4	17	3.35	8	8
010601 Horticulture Services Operations & Management, Gen	27	4.41	, vo	9. 4	, _E	3.92
010602 Arboniculture	S	4.60	~	300	;	41.4
010603 Omamental Horticulture Operations & Management	5	3.70	S	2.80	· 1 5	3.60
010604 Greenhouse Operations & Management	S	3.40	0	:	က	3.40
010605 Landscaping Operations & Management	19	4.11	S.	3.40	24	3.96
010607 Turf Management	o,	3.33	0	i	6	3.33
030601 WILDLIFE AND WILDLANDS MANAGEMENT	φ	4.00	-	4.00	7	4.0
0807 GEN RETAILING & WHOLESALING OPERATIONS	8	4.15	6	3 79	112	8
080705 General Retailing Operations	7	4.00	7	3.00	, G	3.78
080706 General Selling Skills and Sales Operations	SS	4.11	16	9.4		80.4
080709 General Distribution Operations	3	4.26	-	2:00	32	4.19
081105 TRAVEL SERVICES MARKETING OPERATIONS	8	4.36	æ	4.06	29	4.21
150507 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	2	4.50	ĸ	3.60	7	3.86
310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES	თ	4.89	0	ı	თ	4.89
461000 CONSTRUCTION TRADES (INTEGRATED)	=	4.27	ю	4.67	4	4.36
470501 STATIONARY ENERGY SOURCES INSTALL/OPERATOR	5	4.30	0	i	5	4.30
5116 NURSING	1759	4.24	96	3.91	1955	4.21
511601 Nursing (R.N. Training)	1072	4.25	46	3.91	1118	4.24
511613 Practical Nurse (L.P.N. Training)	372	4.23	36	3.75	408	4.19
511614 Nurse Assistant/Aide	315	4.22	114	3.96	429	4 15
5126 MISCELLANEOUS HEALTH AIDES	22	60,4	7	3.14	53	4.19
512602 Medical Laboratory Aide/Phlebotomy	16	4.25	4	3.00	23	4.00
512604 Therapeutic Recreational Assisting	ဖ	3.50	e	3.33	6	3.44
Associate Degree	1301	4.22	क्	3.97	1405	4.20
	406	4.26	4	3.73	447	4.21
Basic Certificate (Less than 30 hours)	332	4.22	15 4	3.91	549	4.13
REPORT TOTAL	2102	4.23	589	3.91	2401	4 19



SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

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Illinois Community College Board Table B-11

TISFACTION WITH MAJOR PROGRAM COMPONENTS	RELECTED OCCUPATIONAL PROGRAMS
GRADUATE SATISFACTION	FOR SELECTED

COURSE CONTENT



SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

Table B-12

GRADUATE SATISFACTION WITH SERVICES FOR SELECTED OCCUPATIONAL PROGRAMS

CIP PROGRAM	FINANCIAL	ACADEMIC ADVISING	CAREER	TRANSFER PLANNING	COUNSEL-	TUTORING	LIBRARY AUDIO VIS	STUDENT	OVERALL
010101 AGRICULTURAL BUSINESS AND MANAGEMENT	4.00	4.36	4.05	4.24	4.27	4.12	4.32	3.93	4.18
0103 AGRICULTURAL PRODUCTION WORKERS & MGRS	4.07	4. 22.	4. 20.	3.76	4.37	4 33	4.24	, P	7
010301 Agricultural Production Workers & Managers, General	3.85	4.46	4.50	3.71	4.33	6.30	2 4	5 4	5. 4
010302 Agricultural Animal Husbandry & Production Mgmt	4.71	4.78	4.63	4.00	4.50	4.50	4.11	4.18	34.
010507 EQUESTRIAN/EQUINE STUDIES, HORSE MGMT	3.83	4.14	3.60	3.67	4.00	4.00	4.60	4.50	4.38
0106 HORTICULTURE SERVICES OPERATIONS & MGMT	4.08	4.38	4.33	3.70	4.10	4.25	4.59	4.38	4 35
	4.11	4.57	4.33	3.60	4.12	4	4	4 12	. 4 8 8
010602 Arboriculture	1.00	8.	3.83	2.75	3.83	8	4.67	3.75	3.72
	4.67	4.07	4.	4.50	4.50	9	88	200	452
	5.00	4.60	4.67	4.67	3.67	4.50	9.	4.50	4.59
	3.75	4.39	4.50	6.0	4.00	1	4.52	4.64	4.30
010607 Turf Management	4.80	4.33	4.17	3.00	4.20	4.00	4.57	4.17	4.21
030601 WILDLIFE AND WILDLANDS MANAGEMENT	5.00	4.75	4.25	3.50	4.75	2.00	4.86	4.25	4.75
0807 GEN RETAILING & WHOLESALING OPERATIONS	4.24	4.46	4.02	4.26	406	393	4.35	6	73
080705 General Retailing Operations	4.71	4.60	4.63	5.00	4.29	2,00	55	900	5 4
080706 General Selling Skills and Sales Operations	4.08	4.46	3.86	4.08	4.02	3.79	4	3.89	4 22
080709 General Distribution Operations	4.50	4.23	4.33	4.50	4.07	4.00	4.09	4.33	4.15
081105 TRAVEL SERVICES MARKETING OPERATIONS	4.13	4.27	4.15	4.18	4.20	3.33	4.40	4.06	4.28
150607 ENVIRONMENTAL AND POLLUTION TECHNOLOGY	2.00	4. 96.	4.40	4.67	4.83	4.33	4.38	4.50	4.49
310505 EXERCISE SCIPHYSIOLOGY & MOVEMENT STUDIES	2.00	4.67	9.00	ı	2.00	3.50	4.29	2.00	4.46
461000 CONSTRUCTION TRADES (INTEGRATED)	4.13	3.33	3.33	3.78	2.92	3.00	4.00	2.57	3.39
470501 STATIONARY ENERGY SOURCES INSTALL/OPERATOR	2.00	5.00	5.00	4.00	4.00	5.00	9.	ı	4.41
5116 NURSING	4.14	4. 8	4.01	3.89	6.00	4.21	4	4.19	81.8
511601 Nursing (R.N. Training)	4.03	3.93	3.90	3.75	3.85	4.15	4.32	11.	60,4
511613 Practical Nurse (L.P.N. Training)	4.29	4.17	4.18	4.01	4.08	4.27	4.57	4.30	4 28
511614 Nurse Assistant/Aide	4.29	8.3	4.15	4.26	4.30	4.37	4.51	4.28	4.35
	4.44	4.06	3.73	6.00	55	4.38	8.	4 29	4.10
	4.33	4.29	3.86	4.33	4.33	8.3	4.20	4 67	4.15
512604 Therapeutic Recreational Assisting	4.67	3.89	3.63	3.67	4.67	4.67	3.88	4.00	4.02
Associate Degree	4.05	4.03	3.96	3.82	3.93	4.14	4.33	4.10	4.13
Advanced Certificate (30 hours or more)	4.28	4.19	4.16	3.96	4.09	4.28	95.	4.27	4.28
basic Certificate (Less than 30 hours)	4.27	2	4.14	4.28	4.27	4.28	4. 8.	4 35	4.33
REPORT TOTAL	41.4	4.10	<u>4</u> .	3.93	4.03	4.19	4. C	4.18	4.20

SOURCE OF DATA: ICCB Occupational Follow-up Study - Fiscal Year 1999

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APPENDIX C

College-Level Occupational Follow-up Study Tables for Selected Occupational Programs by Classification of Instructional Program Code



Table C

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

		Number	Number		Combined Employment	ment	Education	Unemployed/ Seeking	
College		Surveyed	Responding		Cont Ed Rate	Rate	Rate	Employment	
	l Kaskaskia			90.9	100.0				
	Black Hawk	112	101	50.0	0.0	90.0	60.0	0.0	
	Parkland	6	6	100.0	100.0	0.0	0.0	0.0	
	I Illinois Central	9	6	66.7	100.0	100.0 100.0	16.7	0.0	
	Lake Land	16		93.8	100.0	60.0	33.3	0.0	
	Rend Lake	9	8	88.9	100.0	75.0	46.7	0.0	
	Joliet	14	12	85.7	100.0	100.0	62.5 8.3	0.0	
	Wabash Valley	14	10	71.4	88.9			0.0	
	Lewis & Clark	1	0	0.0	00.9	55.6	60.0	0.0	
	Wood	16	10	62.5	100.0	100.0			
	Totals	98	78	79.6	100.0	100.0	30.0	0.0	
	I Otals	90		79.0	<u>97.4</u>	81.8	39.7	0.0	
BEALANGE.	010301-7	AGRICULTU	RAE PRODUC	TION WORK	ERS AND MAN	IAGERS: GE	ENERAL		
50301	Black Hawk	9	3	33.3	100.0	100.0	33.3	0.0	
51701	Lake Land	10	10	100.0	90.0	70.0	20.0	0.0	
51801	Sandburg	5	2	40.0	100.0	100.0	0.0	0.0	
	Rend Lake	7	5	71.4	100.0	80.0	80.0	0.0	
52301	Kishwaukee	6	3	50.0	100.0	100.0	0.0	0.0	
52501	Joliet	10	7	70.0	100.0	100.0	, 0.0	0.0	
52601	Lincoln Land	16	8	50.0	100.0	87.5	37.5	0.0	
52903	Wabash Valley	6	3	50.0	100.0	100.0	0.0	0.0	
53101	Shawnee	1	1	100.0	100.0	100.0	0.0	0.0	
53401	Spoon River	6	1	16.7	100.0	100.0	0.0	0.0	
	Totals	76	43	56.6	97.7	88.4	23.3	0.0	
010302 AGRICULTURAL ANIMAL HUSBANDRY AND PRODUCTION MANAGEMENT									
	Black Hawk Parkland	15	6	40.0	83.3	83.3	0.0	0.0	
52501		<u>2</u> 1	1	50.0	100.0	100.0	0.0	0.0	
	Wood	8	0 4	0.0	400.0	400.0			
55901	Totals	<u>8</u> 26		50.0	100.0	100.0	25.0	0.0	
	I Olais		11	42.3	90.9_	90.9	9.1	0.0	
The Control	- 1320-01	0507 - EQU	ESTRIAN/EQU	INE STUDIE	S, HORSE MAN	AGEMENT	muなおから通信はなる	Control of the Contro	
50301	Black Hawk	12	8	66.7	100.0	87.5	25.0	0.0	
1 the literal from	<i>∞ 144 (1888)</i>		CULTURE SER		M DNA NOITAS	ANAGEME	NT COPYES CORN	5年代的国际	
	DuPage	19_	14	73.7	85.7	71.4	28.6	7.1	
	Black Hawk	4	1_	25.0	0.0	0.0	0.0	0.0	
	Harper	6	5	83.3	66.7	75.0	25.0	0.0	
	Illinois Central	4	3	75.0	66.7	66.7	66.7	0.0	
	Belleville	10	8	80.0	75.0	62.5	37.5	12.5	
	Kishwaukee	2	2	100.0	0.0	0.0	0.0	0.0	
52501		18	10	55.6	100.0	100.0	10.0	0.0	
	McHenry	4	4	100.0	75.0	75.0	50.0	0.0	
	Lincoln Trail	1	1	100.0	100.0	0.0	100.0	0.0	
53701	Richland	6	4	66.7	100.0	100.0	50.0	0.0	
	Totals	74	52	70.3	80.0	72.5	31.4	3:9	
71	w's street	الم والعاملة - المعرفين المنافقة الماري والمارية	ARRES BAROOS	A DBODIO!!!	TUDE WAY	العملاء التي التي التي التي التي التي التي التي	er gradent in the object grade the season of the	the name of the state of the st	
\$1.1004 \$4004	Harnor	HERATTER TOTAL					_		
51201		1	1	100.0	100.0	100.0	0.0	0.0	
	Lake County	4	3_	75.0	100.0	100.0	66.7	0.0	
33301	Southeastern Totals	9	3	75.0	100.0	100.0	0.0	0.0	
	IOIAIS	_		77.8	100.0	100.0	28.6	0.0	



Table C OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

•		•			Combined	Employ-	Continuina	Unemployed/
		Number		Response	Employment	ment	Education	Seeking
College		Surveyed	Responding	Rate	Cont Ed Rate	Rate	Rate	Employment
San San Talan	010603	-ORNAME	NTAL HORTIC	ULTURE OP		MANAGE	MENT	<u> </u>
	I DuPage	1	1	100.0	100.0	100.0	100.0	0.0
	I Sauk Valley	6	4	66.7	100.0	100.0	50.0	0.0
	Harper	11	11	100.0	81.8	72.7	18.2	0.0
	Kishwaukee	3	3	100.0	100.0	100.0	66.7	0.0
	Joliet	3	3	100.0	100.0	100.0	0.0	0.0
	McHenry	1	1	100.0	100.0	100.0	0.0	0.0
53201	Lake County	6	4	66.7	100.0	75.0	50.0	0.0
	Totals	31	27	87.1	92.3	84.6	33.3	0.0
21.77.75.25.25.		010604 - 0	REFNHOUSE	OPERATION	IS AND MANAG	EMENT	<u> </u>	
50401	Triton	<u></u>	2	66.7	50.0	50.0	0.0	
	Kishwaukee	5		100.0	100.0	80.0	40.0	0.0
	Totals	8		87.5	85.7	71.4	28.6	0.0
			<u> </u>			71.4		0.0
+ 25 23 24 W No.		010605 - L	ANDSCAPING	OPERATION	S AND MANAC	FMENT	entrate in the	ية شني تسي
50201	DuPage	2	1	50.0	100.0	100.0	100.0	0.0
50401	Triton	10	7	70.0	100.0	100.0	14.3	0.0
50701	Sauk Valley	7	4	57.1	50.0	50.0	0.0	0.0
52301	Kishwaukee	8	7	87.5	100.0	100.0	14.3	0.0
52801	McHenry	3	3	100.0	100.0	100.0	0.0	0.0
53201	Lake County	6	5	83.3	100.0	80.0	20.0	0.0
	Totals	36	27	75.0	92.6	88.9	14.8	0.0
新州市市北京市市大学	SAME TO SERVE SERVED	是一个一个	€ 010607 <i>-</i> T	URF:MANA	SEMENT 未放射 5億	visionismi en	State of the	· 文本是是在實際的關鍵的語
50201	DuPage	<u> </u>	<u>1</u> _	100.0	100.0	100.0	0.0	0.0
52301	Kishwaukee	8_	8	100.0	100.0	100.0	0.0	0.0
52501	Joliet	1	1	100.0	100.0	100.0	0.0	0.0
	Totals	10	10	100.0	100.0	100.0	0.0	0.0
The star of Spots at the co	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000004						
\$150 (\$150 day)	<u> </u>	030601		ND WILDLAN	IDS MANAGEM	ENT.	The state of the s	AND MARKET
53101	Shawnee	1_		100.0	100.0	100.0	100.0	0.0
53301	Southeastern	13	7	53.8	85.7	85.7	14.3	14.3
	Totals	14	8	57.1	87.5	87.5	25.0	12.5
manufacture are no	A second of the second	AND A LABORE	TOE OFNEDA	·		6.5		
51001	South Suburban	<u> </u>		L'RETAILING				
51201	Harper	1	<u>1</u> 1	50.0 100.0	100.0	100.0	0.0_	0.0
51701	Lake Land	10			100.0	100.0		0.0
52401	Moraine Valley		3 1	30.0 100.0	100.0	100.0	0.0	0.0
52501	Joliet Valley	4	- 0	0.0	100.0	100.0	0.0	0.0
52903	Wabash Valley	8	5	62.5	100.0	400.0		
	Totals	26	11	42.3	100.0	100.0	20.0	0.0
	10(8)			42.3	100.0	100.0	10.0	0.0
E7		10706 - GEN	ERAL SELLIN	G SKILLS: AL	ND SALES OPE	RATIONS	MENTER CONTRACT FOR	CONTRACTOR PROPERTY LINES AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND
50201	DuPage	26	13	50.0	100.0	84.6	53.8	
50401	Triton	8	6	75.0	100.0	100.0	33.3	0.0
50501	Parkland	2		100.0	100.0	100.0	0.0	0.0
50601	Sauk Valley	5	4	80.0	75.0	75.0	0.0	0.0
50701	Sauk Valley	8	4	50.0	100.0	100.0	0.0	0.0
50802	Washington	1	0	0.0				0.0
	<u>~</u>							

SOURCE OF DATA: Fiscal Year 1999 Occupational Follow-up Data Barren and the state of the



Table C

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

	•				Combined	Employ-	Continuing	Unemployed/
		Number	Number		Employment		Education	Seeking
College		Surveyed R	esponding	Rate	Cont Ed Rate	Rate	Rate	Employment
	0807				SALES OPERA	TIONS (co	nt.)	
	Olive-Harvey	1	0	0.0				
	Daley	22	1	50.0	100.0	100.0	0.0	0.0
	Wright	15	12	80.0	91.7	83.3	33.3	16.7
	Elgin Subsuban	6	5	83.3	100.0	100.0	0.0	0.0
	South Suburban	2	2	100.0	100.0	100.0	0.0	0.0
	Rock Valley Harper	4	2	50.0	100.0	100.0	0.0	0.0
	Illinois Valley	3	2	66.7	100.0	100.0	0.0	
	Illinois Central		2	50.0	100.0	100.0	0.0	
	Lake Land		0	0.0				
	Sandburg	2	0	0.0		,		
	Belleville	4 	3	75.0	100.0	100.0	33.3	0.0
	Joliet	11	5	71.4	100.0	100.0	40.0	0.0
	Morton	<u> </u>	2	18.2	100.0	100.0	0.0	0.0
	McHenry	 1	<u> </u>	100.0	100.0	100.0	0.0	0.0
	Wabash Valley	<u>'</u>	0	100.0	100.0	100.0	100.0	0.0
	Logan	8	4	50.0	100.0	400.0		
	Lake County	14	4 11	78.6		100.0	0.0	0.0
	Totals	137	82	59.9	100.0	90.9	45.5	9.1
	iotais	13/	. 02		97.6	92.7	26.8	
Market Commen	在1900年1月1日	2184 E 47090700	*CENEDAL	DISTOIDUT	ONEODEDATION	10 Calling amilion	senter the factor rest to	3.7
50201	DuPage	23	14	60.9				
50401		<u>23</u> 1		100.0	100.0	92.9	64.3	0.0
	Harper	25	16	64.0	100.0	100.0	0.0	0.0
	Illinois Central	<u></u>	10	100.0	100.0	100.0	60.0	0.0
	Oakton	3		66.7	100.0 100.0	100.0	0.0	0.0
	Totals	<u></u>	34	64.2	100.0	100.0 97.1	0.0	0.0
				04.2	100.0	97.1	54.5	0.0
William Marri	and the second second	081105 - TR	AVELSERV	ICES MARK	ETING OPERAT	TONS SACT	PROCESSOR SOLE TO SOLE	a milatina e a la carro a s
50201	DuPage	103	54	52.4	92.6	85.2	37.0	
	Parkland	13	<u></u>	61.5	100.0	87.5	12.5	5.6
	Washington		3	33.3	66.7	66.7	0.0	0.0
50901					100.0	100.0	0.0	0.0
	Waubonsee		4	66.7	100.0	100.0	25.0	0.0
	Moraine Valley	29	15	51.7	80.0	73.3	13.3	<u>0.0</u> 6.7
53001		3	2	66.7	100.0	50.0	50.0	0.0
	Totals	172	87	50.6	90.8	82.8	28.7	4.6
						02.0	20.7	4.0
8 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	人名 等於 高数元	150507 - ENV	RONMENTA	L AND POLI	UTION TECHN	OFOGY	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	考虑的意思的一种的特殊的企业
	Black Hawk	5	3	60.0	100.0	100.0	33.3	0.0
50807		12		50.0	100.0	66.7	20.0	33.3
	Totals	17	9	52.9	100.0	77.8	25.0	22.2
the or or it.	115 - 12 - 12 - 12 - 10 - 10 - 10 - 10 - 10	5 - EXERCISE	SCIENCES/	PHYSIOLOG	YAND MOVEME	NT/STIIDI	FS Select	STOREGIA PURE
51201	Harper	10	9	90.0	100.0	100.0	11.1	0.0
10 m 1 m	on a second of the	46100 - 0	CONSTRUCT	TION TRADE	S (INTEGRATE) 1586 1586 16 1	Hadini Beletata	ult. 2019 A (1014 146 120 14 A A
50101	Kaskaskia	2	0	0.0	- 1000 -		راي از دياي منظور بريايت مريسته ديد. دي درياي ديناي منظور بريايت مريسته ديد.	ACCOMPANY OF THE STATE OF THE S
50401		3	1	33.3	100.0	100.0	0.0	0.0
	Parkland	9	5	55.6	80.0	80.0	0.0	0.0
	South Suburban	$\frac{3}{7}$	5	71.4	100.0	100.0	40.0	0.0
	Rock Valley	2	0	0.0			40.0	
					<u>-</u>	_ _		

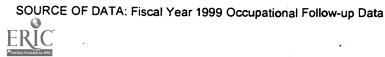




Table C

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

		Number	M	_	Combined			Unemployed/
College		Number	Number Responding		Employment Cont Ed Rate	ment	Education	Seeking
	K K THE KAN	All Services	6100 CONST	RUCTION T	PADES (cont)	Rate	Kate	Employment
51401	Illinois Central	5	2	40.0	100.0	100.0	100.0	0.0
52201	Belleville	9	5	55.6	80.0	80.0	0.0	0.0
52501		4	0	0.0				
	Lincoln Land	1	0	0.0				
53301	Southeastern	1	0	0.0				
	Totals	43	18	41.9	88.9	88.9	22.2	0.0
The state of the s	24							
50404	**************************************	0501 - STAT						
50401	Belleville	6_	5	83.3	100.0	100.0	20.0	0.0
	Totals	5 11	5	100.0	100.0	100.0	0.0	0.0
	101315		10	90.9	100.0	100.0	10.0	0.0
表表示图像的影响	这点对于中心主体	WARREN STORY	35116012 NUE	SING (D NE	TDAINING	The Mary Harley To	B1 6 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
50101	Kaskaskia	65	48	73.8	91.3	91.3	17.4	733 mg garaine
50201	DuPage	72	35	48.6	94.3	94.3	8.6	2.9
50301	Black Hawk	43	25	58.1	96.0	96.0	32.0	0.0
50401		100	54	54.0	96.3	96.3	14.8	1.9
	Parkland	77	64	83.1	90.5	85.9	12.7	6.3
	Sauk Valley	18	15	83.3	100.0	100.0	13.3	0.0
	Danville	55	18	32.7	94.4	94.4	5.6	5.6
	Malcolm X	13	4	30.8	100.0	100.0	0.0	0.0
	Truman	68	36	52.9	94.1	88.9	17.6	5.6
	Olive-Harvey	38	20	52.6	100.0	100.0	10.5	0.0
50806 50901		44	25	56.8	87.5	88.0	8.3	0.0
	South Suburban	88 65	58	65.9	100.0	100.0	6.9	0.0
	Rock Valley	34	37 27	56.9 79.4	100.0	100.0	18.9	0.0
51201		57	45		91.7 97.7	88.9	16.7	0.0
	Illinois Valley	42	30	71.4	100.0	97.8 100.0	11.4 16.7	2.2
	Illinois Central	35		71.4	100.0	100.0	8.0	0.0
	Prairie State	56	43	76.8	88.4	88.4	7.0	7.0
51601	Waubonsee	54	36	66.7	94.4	94.4	8.3	2.8
	Lake Land	33	28	84.8	100.0	96.4	3.6	3.6
	Sandburg	22	14	63.6	100.0	100.0	28.6	0.0
	Highland	16	12	75.0	91.7	91.7	8.3	8.3
	Kankakee	46	31	67.4	100.0	100.0	16.1	0.0
	Rend Lake	28	17	60.7	100.0	100.0	5.9	0.0
	Belleville	39	25	64.1	100.0	100.0	4.0	0.0
	Kishwaukee	44	33	75.0	100.0	100.0	18.2	0.0
52501	Moraine Valley	55	33	60.0	96.8	97.0	16.1	0.0
	Lincoln Land	90 79	82	91.1	97.6	97.6	6.1	0.0
52701		24	52 14	65.8	100.0	100.0	15.7	0.0
52902	Olney Central	105	55	58.3 52.4	78.6	78.6	21.4	21.4
53001		26	9	34.6	87.3	87.3	9.1	7.3
	Shawnee	21	<u></u>	52.4	100.0 90.9	100.0 90.9	33.3 18.2	0.0
	Lake County	59	36	61.0	97.2	97.2	13.9	9.1
	Southeastern	28	21	75.0	100.0	100.0	19.0	0.0
	Spoon River	14	9	64.3	100.0	100.0	11.1	0.0
53501	Oakton	52	33	63.5	97.0	93.9	12.1	3.0
	ewis & Clark	85	78	91.8	91.9	76.9	67.6	9.0
53701 F	Richland	34	25	73.5	95.8	95.8	4.2	0.0
								

SOURCE OF DATA: Fiscal Year 1999 Occupational Follow-up Data



Table C

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

	N		_	Combined			Unemployed/
College	Number			Employment	ment	Education	Seeking
AT PERSONAL PROPERTY OF THE PERSONAL PROPERTY	_ Surveyed	Responding	NG /P N TP	Cont Ed Rate	Rate	Rate_	Employment
53901 Wood	20	15 150 13-140 RSI	75.0	100.0	100.0	6.7	
54001 Heartland	25	15	60.0	93.3		6.7	0.0
Totals	1969	1293	65.7	95.6	77.8	13.3	22.2
101813	1909		65.7	95.6	94.1	15.6	2.7
	1.86.41.5110	13 PRACTIC	AL NURSE (L.P.N. TRAINING	3)3		
50101 Kaskaskia	17	14	82.4	92.9	92.9	28.6	0.0
50301 Black Hawk	28	14	50.0	92.9	85.7	50.0	0.0
50401 Triton	84	32	38.1	96.9	96.9	37.5	0.0
50501 Parkland	11	5	45.5	60.0	60.0	0.0	40.0
50601 Sauk Valley	13	13	100.0	92.3	92.3	15.4	7.7
50701 Danville	25	13	52.0	90.9	90.9	30.8	9.1
50801 Kennedy-King	163	42	25.8	86.8	87.8	12.8	9.8
50901 Elgin	47	41	87.2	87.8	85.4	22.0	7.3
51001 South Suburban	28	16	57.1	93.8	93.8	43.8	0.0
51201 Harper	45	33	73.3	96.9	97.0	21.9	0.0
51301 Illinois Valley	15	6	40.0	100.0	100.0	16.7	0.0
51401 Illinois Central	9	5	55.6	80.0	80.0	40.0	20.0
51701 Lake Land	26	11	42.3	100.0	81.8	36.4	0.0
51801 Sandburg	32	16	50.0	100.0	81.3	43.8	0.0
51901 Highland	13	8	61.5	100.0	100.0	12.5	0.0
52001 Kankakee	37	18	48.6	100.0	100.0	27.8	0.0
52101 Rend Lake	38	24	63.2	95.8	91.7	16.7	4.2
52301 Kishwaukee	1	1	100.0	100.0	100.0	0.0	0.0
52701 Morton	25	13	52.0	92.3	84.6	30.8	7.7
52902 Olney Central	24	15	62.5	86.7	80.0	20.0	6.7
53001 Logan	82	45	54.9	100.0	79.5	62.2	0.0
53101 Shawnee	26	10	38.5	90.0	80.0	40.0	0.0
53301 Southeastern	71	54	76.1	96.3	87.0	37.0	3.7
53401 Spoon River	34	19	55.9	100.0	100.0	15.8	0.0
53601 Lewis & Clark	5	5	100.0	75.0	80.0	75.0	0.0
53901 Wood	26	14	53.8	100.0	100.0	35.7	0.0
Totals	925	487	52.6	94.1	89.1	31.3	3.6
Assistant Committee	CONTROL VINE	# 511614 - NU	RSE ASSIST	ANT/AIDE	学课/建筑学 的	AND AND AND	STREET, BON
50301 Black Hawk	<u> </u>	0	0.0				
50601 Sauk Valley	46	26	<u>56</u> .5	92.3	69.2	38.5	3.8
50801 Danville	155	26	16.8	82.6	84.6	13.0	15.4
50806 Daley	15	5	33.3	60.0	60.0	40.0	40.0
50901 Elgin	10	6	60.0	100.0	100.0	0.0	0.0
51101 Rock Valley	187	73	39.0	91.3	88.9	18.6	5.6
51301 Illinois Valley	93	51	54.8	94.1	82.4	68.6	5.9
51601 Waubonsee	94	43	45.7	88.1	83.7	23.8	2.3
51701 Lake Land	1	0	0.0				
52201 Belleville	53	28	52.8	92.9	89.3	7.1	7.1
52301 Kishwaukee	. 36	. 25	69.4	100.0	100.0	20.0	0.0
52801 McHenry	118	73	61.9	90.4	86.3	37.0	6.8
52901 Lincoln Trail	26	17	65.4	94.1	82.4	35.3	0.0
52902 Olney Central	18	5	27.8	80.0	80.0	20.0	0.0
52904 Frontier	41	14	34.1	78.6	78.6	14.3	14.3
53201 Lake County	95	49	51.6	85.7	77.6	24.5	8.2
53301 Southeastern	13	9	69.2	77.8	77.8	33.3	22.2
53501 Oakton	58	25	43.1	84.0	84.0	20.0	4.0



Table C

OCCUPATIONAL FOLLOW-UP SUMMARY BY COLLEGE AND CIP

College			Number Responding		Cont Ed Rate	Employ- ment Rate	Education Rate	Unemployed/ Seeking Employment
Paradina de la compansión de la compansi	的一个特性的自然的	Passinshita 5	11614 NURS	E ASSISTAN	IT/AIDE (cont.)	Teathern, William	me -	
53601	Lewis & Clark	109	37	33.9	78.4	73.0	59.5	0.0
53901	Wood	69	29	42.0	92.6	86.2	25.9	3.4
	Totals	1238	541	43.7	88.9	83.5	31.0	5.9
的學術學學	ent outside	512602	- MEDICAL LA	BORATORY	AIDE/PHLEBO	TOMY		
52401	Moraine Valley	40	20	50.0	100.0	100.0	10.5	0.0
53501	Oakton	6	0	0.0			**	
	Totals	46	20	43.5	100.0	100.0	10.5	0.0
21.44 (F. 44)	Part of Table	512604	-THERAPEUT	TIC RECREA	TIONAL ASSIS	TING	ar and the second	The second second
50401	Triton	9	6	66.7	100.0	100.0	16.7	0.0
52401	Moraine Valley	4	4	100.0	100.0	100.0	66.7	0.0
	Totals	13	10	76.9	100.0	100.0	33.3	0.0

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